

ZX-7

Canadian Model

AEP Model

UK Model

US Model

E Model



Photo: US model

FM/AM STEREO CASSETTE-CORDER

SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 6-ohm loads, both channels driven, from 150–12,000 Hz; rated 3.5 W per channel minimum RMS power, with no more than 10% total harmonic distortion.

OTHER SPECIFICATIONS

Radio section

Frequency range	FM 76–108 MHz AM 530–1,605 kHz
Antennas	FM: Telescopic antenna AM: Built-in ferrite bar antenna

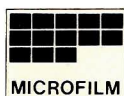
— Continued on page 2 —

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



MICROFILM

SONY®

SERVICE MANUAL

Tape recorder section and general

Recording system 4-track 2-channel stereo
 Fast winding time Approx. 2 min. with Sony cassette C-60
 Wow and flutter $\pm 0.14\%$ (DIN)
 0.04% W.RMS (NAB)
 Frequency response 40–16,000 Hz (with TYPE IV cassette)
 40–14,000 Hz (with TYPE II cassette)
 40–13,000 Hz (with TYPE I cassette)
 Speakers Two approx. 7.3×7.3 cm ($2\frac{7}{8} \times 2\frac{7}{8}$ inches)
 Inputs One external microphone input jack (stereo minijack)
 sensitivity 0.44 mV (–65 dB)
 for low impedance microphone
 One line input jack (stereo minijack)
 sensitivity 0.25 V (–10 dB)
 input impedance 47 kilohms
 Outputs One line output jack (stereo minijack)
 load impedance 10 kilohms or higher
 rated output 0.27 V (–9.2 dB) at
 load impedance 47 kilohms
 Headphone jack (stereo minijack)
 for 8 to 300-ohm impedance headphones

Power requirements 6 V dc, four batteries size D (IEC designation R20)
 120 V ac, 60 Hz with supplied Sony AC-910 ac power adaptor
 Power consumption 26 W
 Battery life Approx. 7 hours with Eveready No. 1250 Heavy Duty batteries
 Approx. 10 hours with Eveready No. E95 Alkaline batteries
 Dimensions Approx. $354 \times 105 \times 105.5$ mm (w/h/d)
 ($14 \times 4\frac{1}{4} \times 4\frac{1}{4}$ inches)
 incl. projecting parts and controls
 Weight Approx. 2.7 kg (5 lb 15 oz)
 incl. batteries

MODEL IDENTIFICATION

— Specification Label —

SONY®	MODEL NO. ZX-7
STEREO CASSETTE-CORDER 2BANDS	
FREQUENCY RANGE:	
BATTERY SUPPLY: 1.5 V x 4 IEC R20	
SIZE D	
EXTERNAL DC SUPPLY: 9 V	
MADE IN JAPAN	
 MUSIC SENSOR SYSTEM MANUFACTURED UNDER LICENSE FROM STAAR S. A., BRUXELLES, BELGIUM	

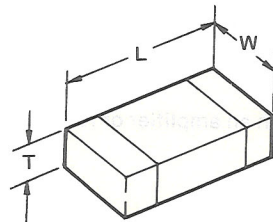
(AEP, E model: FM 87.6–107 MHz
 AM 530–1605 kHz
 US, Canadian, UK model: FM 76–108 MHz
 AM 530–1605 kHz

Chip components

Chip components include resistors, capacitors, transistors, diodes, coil and adjustable resistors.

In this section, the types of resistors, ceramic capacitors, transistors and diodes which are used most frequently will be described.

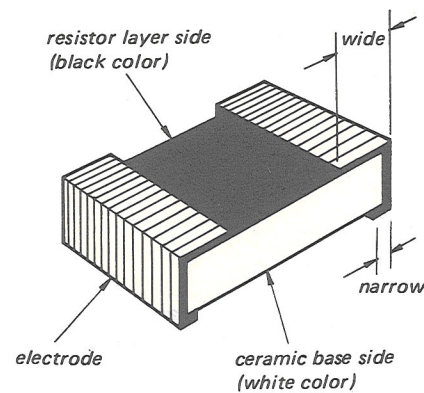
Dimension of transistors and capacitors



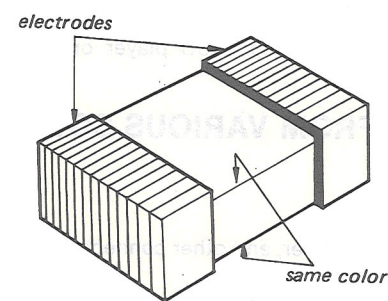
(Unit: mm)

Type	L	W	T
3216	3.2	1.6	0.45 ~ 0.6
2125	2.0	1.25	0.35 ~ 0.5

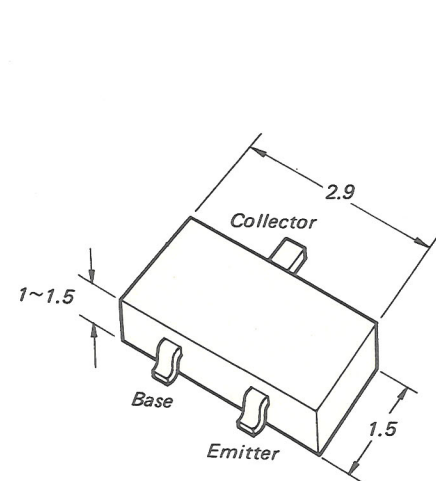
Identification



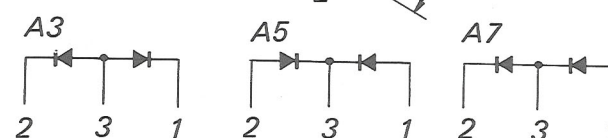
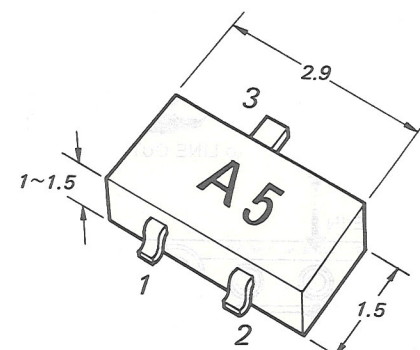
Resistor



Laminated Ceramic Capacitor



Transistor



Diode

Replacing chip components

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

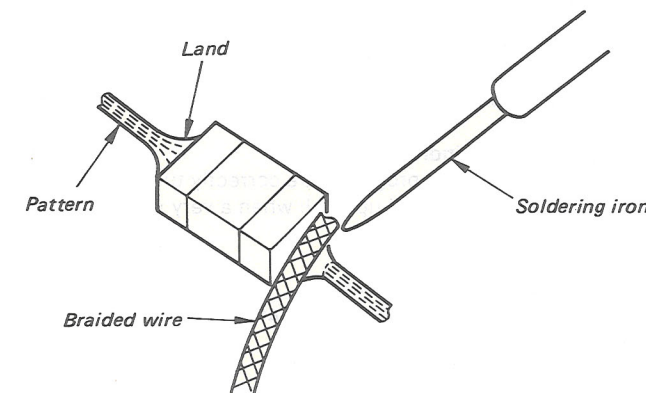
Precautions for replacement

1. Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.
2. Never re-use a disconnected chip component. Dispose of all old chip components.
3. To protect the chip component, heating time for attaching the component should be within 3 seconds.

Removing chip components

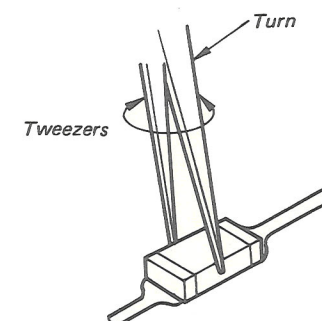
(1) Removing solder at electrode

Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off. Never re-use a disconnected chip component.



(3) Smoothing the soldered surface

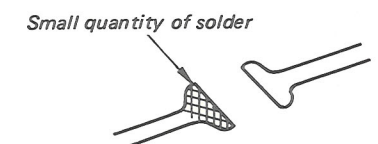
After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

Connecting chip components

The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

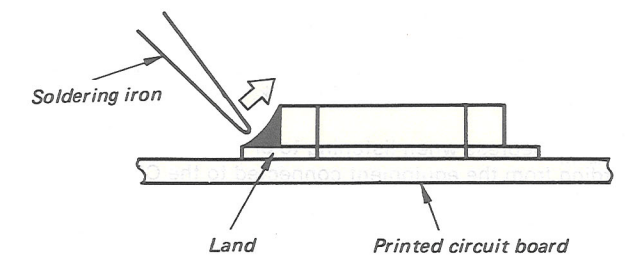
(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.



(2) Speedy soldering

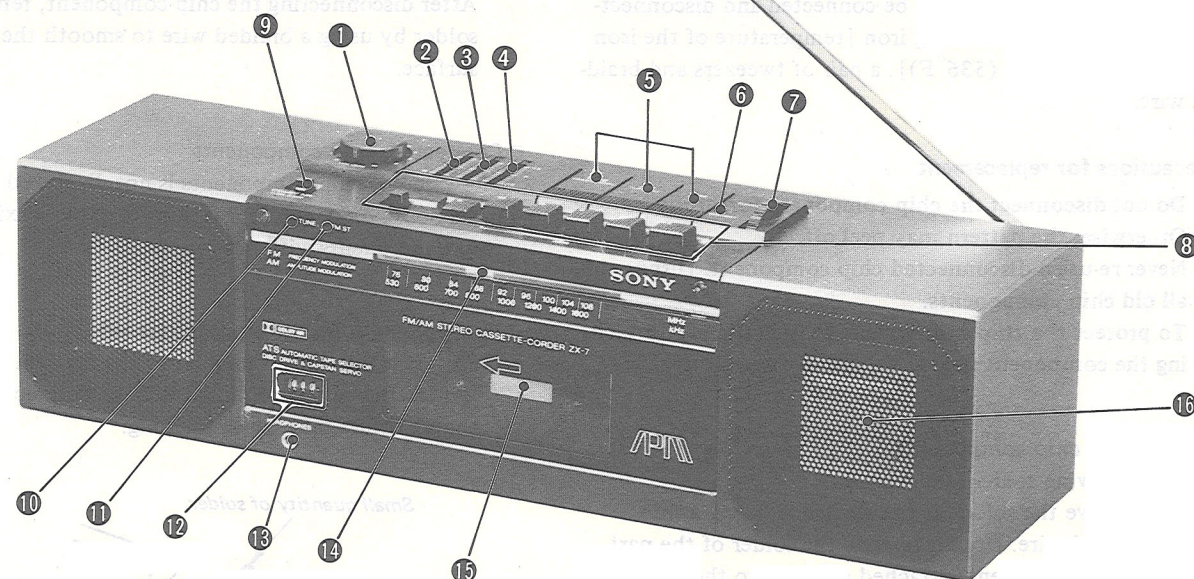
Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



(3) Speedy soldering of electrode on the other side

Solder the electrode on the other side in the same way as in (2) above.

LOCATION AND FUNCTION OF CONTROLS



1 VOLUME control
Turn clockwise for more volume.

2 BALANCE control
Slide to adjust the volume of the left and right speakers or headphones for optimum stereo effect.

3 BASS control
Slide toward +5 for more bass.

4 TREBLE control
Slide toward +5 for more treble.

5 Function buttons
RADIO OFF: Press to turn the radio off when playing back a tape or recording from the MIC (STEREO) jack, and when the set is not in use.
AM (CD/LINE IN): Depress when listening to or recording AM programs, or recording from the equipment connected to the CD/LINE IN jack.
FM (CD/LINE IN): Depress when listening to or recording FM programs, or recording from the equipment connected to the CD/LINE IN jack.

6 OPR/BATT (operation/battery) indicator
Lights up to show that the set is in operation. This indicator also shows the battery condition.

7 TUNING knob
Turn to select the frequency of the desired station on the dial scale.

8 Tape operation mode select buttons
REW (rewind): Depress to rewind the tape. For AMS operation, depress this button during playback. See page 7.
STOP/EJECT: Press to stop the tape and to open the cassette holder.
PLAY: Depress for playback.
FF (fast forward): Depress to advance the tape rapidly. For AMS operation, depress this button during playback. See page 7.
REC: Depress to record.
PAUSE: Depress to stop the tape for a moment during recording or playback. To restart the tape, press it again.
To stop the tape for a long time, use the STOP/EJECT button.
REC MUTE: Press and keep the button pressed to eliminate material or to provide spacing during recording.

9 DOLBY NR switch (B-type)
Depress (ON) to record with the Dolby NR (Noise Reduction) system or to play back a tape recorded with the Dolby NR system.

10 TUNE (tuning) indicator
Lights up when radio programs are correctly tuned in. The indicator might flicker or not light up at all when a very weak signal is being received.

11 FM ST (FM stereo) indicator
Lights up when an FM stereo program of sufficient signal strength is tuned in.

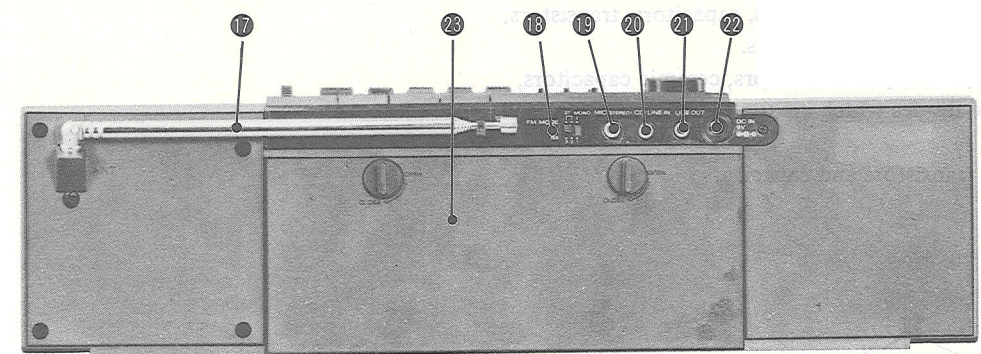
12 Tape counter and reset button
For indexing the tape contents. Before recording, set the counter to 000 by pushing the reset button. The figures on the counter change as the tape passes. Make a note of the figures and the program being recorded.

13 HEADPHONES jack
Stereo minijack for listening with a pair of stereo headphones. When the headphones are connected to this jack, the speakers are automatically disconnected.

14 Dial scale and pointer

15 Cassette holder

16 Speaker



17 Telescopic antenna
Used for FM reception.

18 FM SENS/ISS (FM sensitivity/Interference Suppress Switch) selector (US, Canadian model)
FM MODE/ISS (Interference Suppress Switch) selector (AEP, UK, E model).
FM SENS: Used for FM reception. Normally set the switch to DX. When a strong signal station causes noise, set it to LOCAL.
FM MODE: Used for FM reception. Normally set the switch to ST. Set to MONO when it is hard to hear the broadcast due to noise.
ISS: Used for AM program recording.

19 MIC (STEREO) (external microphone input) jack
Stereo minijack for recording with external microphones.

20 CD/LINE IN (line input) jack
Stereo minijack for connecting a CD player or recording from various sound sources.

21 LINE OUT (line output) jack
Stereo minijack for listening through an amplifier or for duplicating a tape onto another tape recorder.

22 DC IN 9V (external power input) jack
For operation on house current, connect the supplied ac power adaptor.

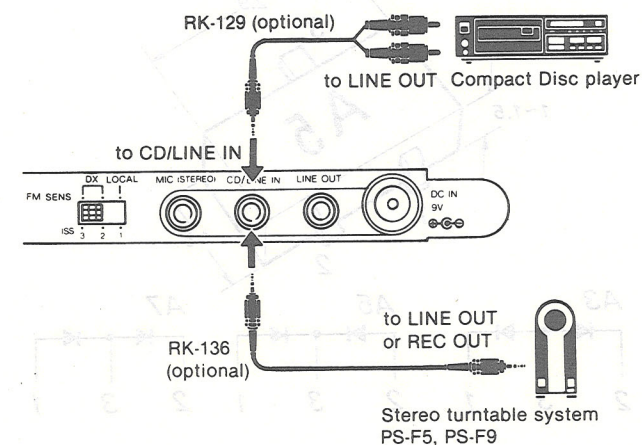
23 Battery compartment

RECORDING FROM VARIOUS SOUND SOURCES

Notes on connection

- Turn off the ZX-7, amplifier, and other connected devices before making connections.
- Insert the connectors fully into the jacks.
- Loose connections may cause hum and noise.
- The red plug of the connecting cord should be connected to the right channel and the other plug to the left channel.
- If your radio, TV, etc., is not a Sony product, refer to the instruction manual of that set.

Listening to or recording from a CD (Compact Disc) player or a turntable system

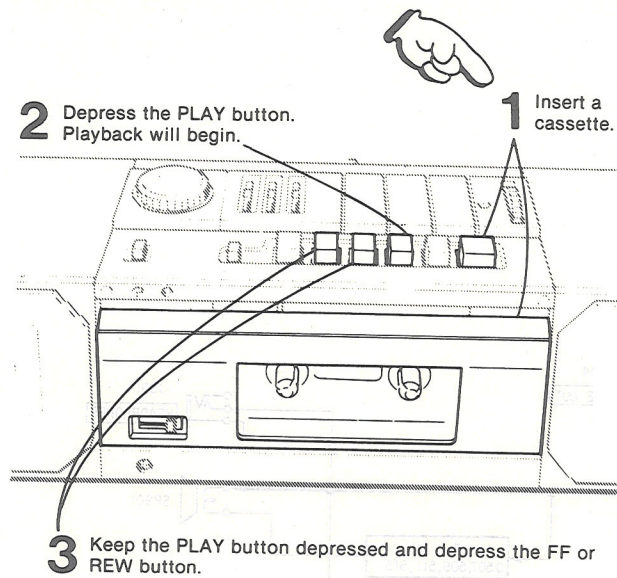


Other notes

- Do not depress the ^{AM}(CD/LINE IN) button and ^{FM}(CD/LINE IN) button at the same time. If you do, the set will not operate.
- When duplicating from or onto a monaural tape recorder, the sound will be recorded in monaural.

AUTOMATIC MUSIC SENSOR (AMS) SYSTEM

During playback, you may skip one selection by depressing the FF or REW button. The AMS searches for the blank space between selections, and playback will start automatically from the beginning of the desired selection.



At the beginning of the selection, the FF or REW button will be released and playback will begin.

[Example 1] Operating AMS from a blank space

SONY			
A	DATE: SOLBY (REW)	COUNT	B
Selection 1			
Selection 2			
Selection 3			

If you want to listen to Selection 3, depress the FF button.
If you want to listen to Selection 1, depress the REW button.

[Example 2] Operating AMS from the middle of a selection

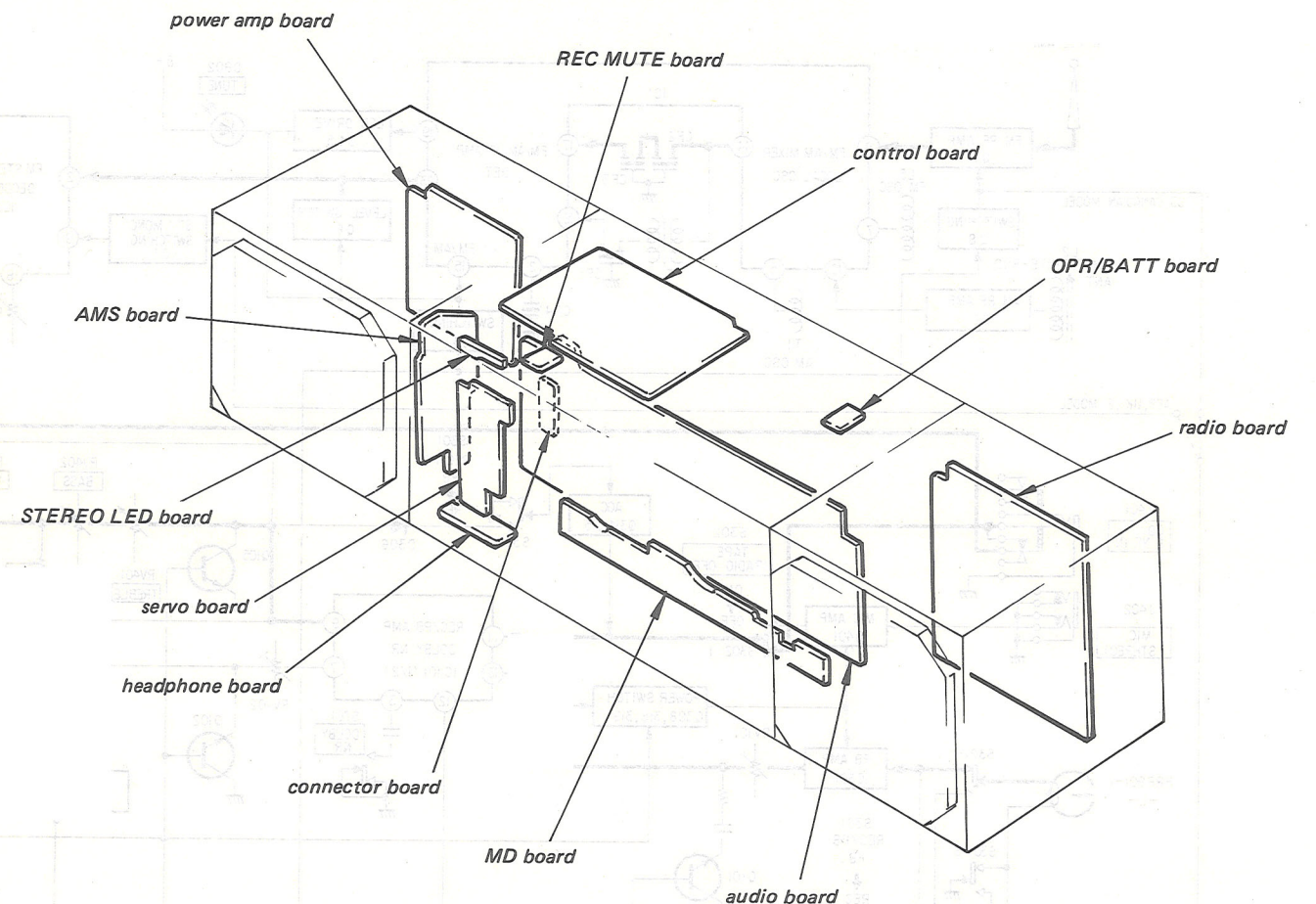
SONY			
A	DATE: SOLBY (REW)	COUNT	B
Selection 1			
Selection 2			
Selection 3			

If you want to listen to Selection 3, depress the FF button.
If you want to listen to Selection 2 from the beginning, depress the REW button.

Notes

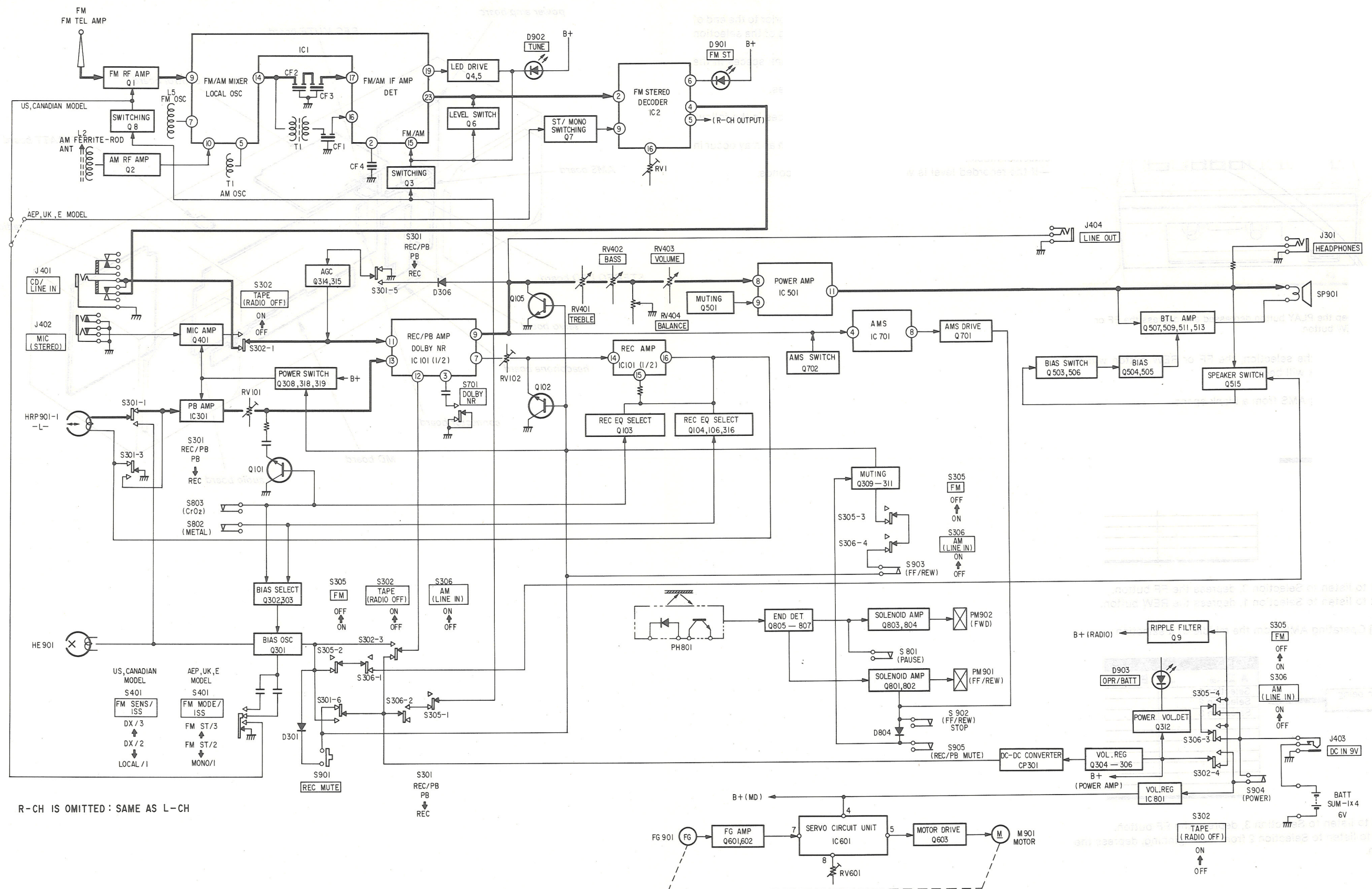
- If you depress the REW button about 15 seconds after a selection has started to play, playback will begin from the beginning of the previous selection.
- If you depress the FF button about 15 seconds prior to the end of a selection, playback will begin from the beginning of the selection after the immediately following one.
- The AMS may not detect some sections as blank spaces in the following situations:
 - if severe noise or hum exists in the blank spaces.
 - if a blank space is less than 4 seconds long.
- The AMS may read some sections as blank spaces in the following situations:
 - if any selection pauses for several seconds, such as may occur in classical music.
 - if the recorded level is very low for several seconds.

CIRCUIT BOARDS LOCATION



SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM

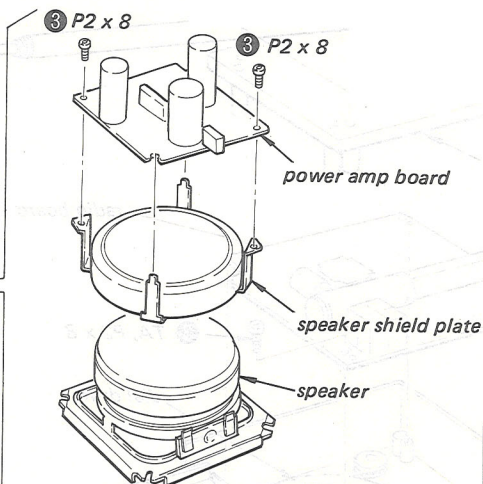
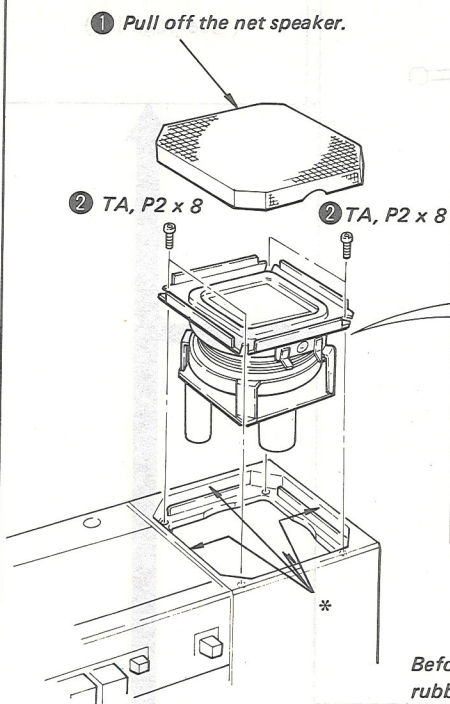


R-CH IS OMITTED: SAME AS L-CH

SECTION 2 DISASSEMBLY

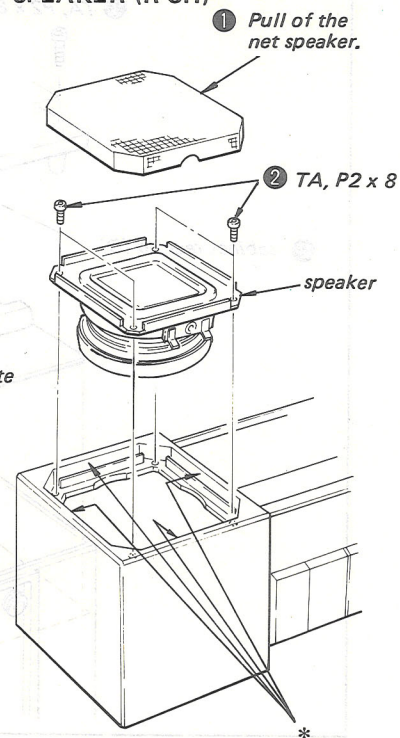
Note: Follow the disassembly procedure in the numerical order given.

POWER BOARD/SPEAKER (L-CH)

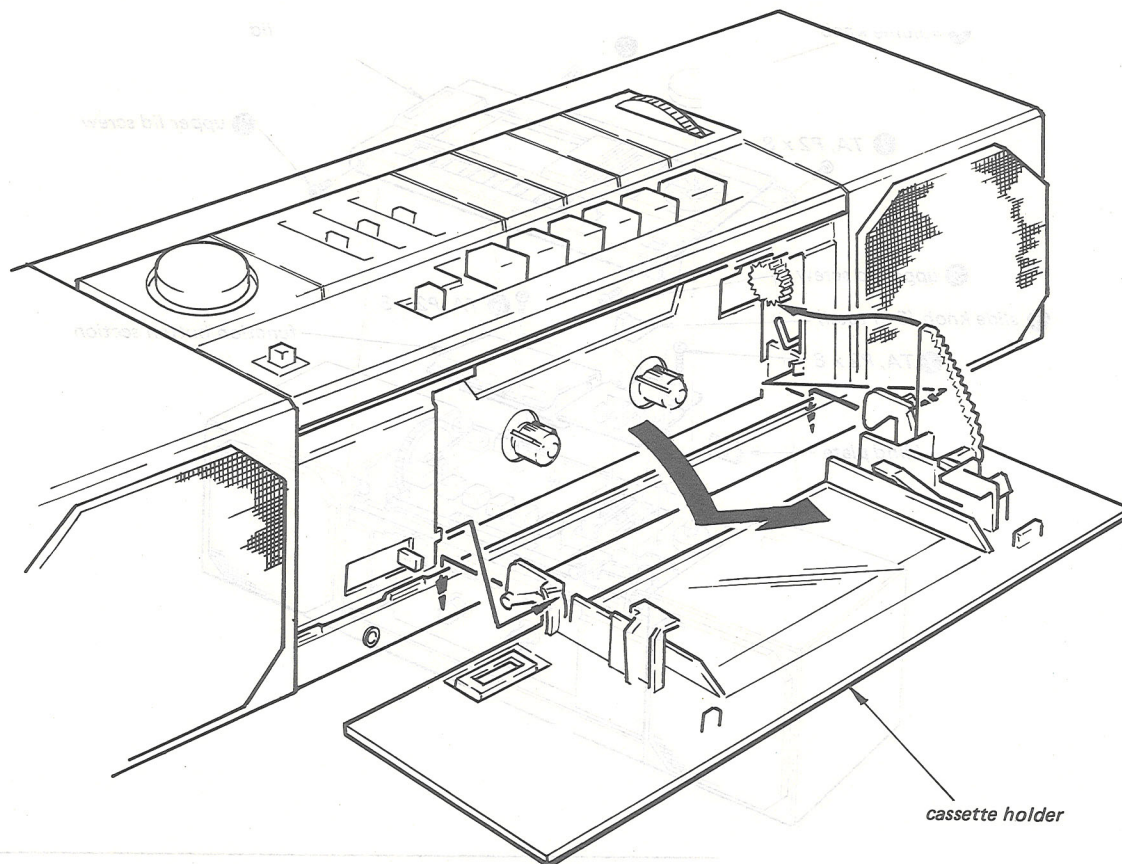


Before reinstalling the net speaker, apply butyl rubber (part No. 7-331-002-02) approx. 20 mm in length on the portions marked with * in the figure.

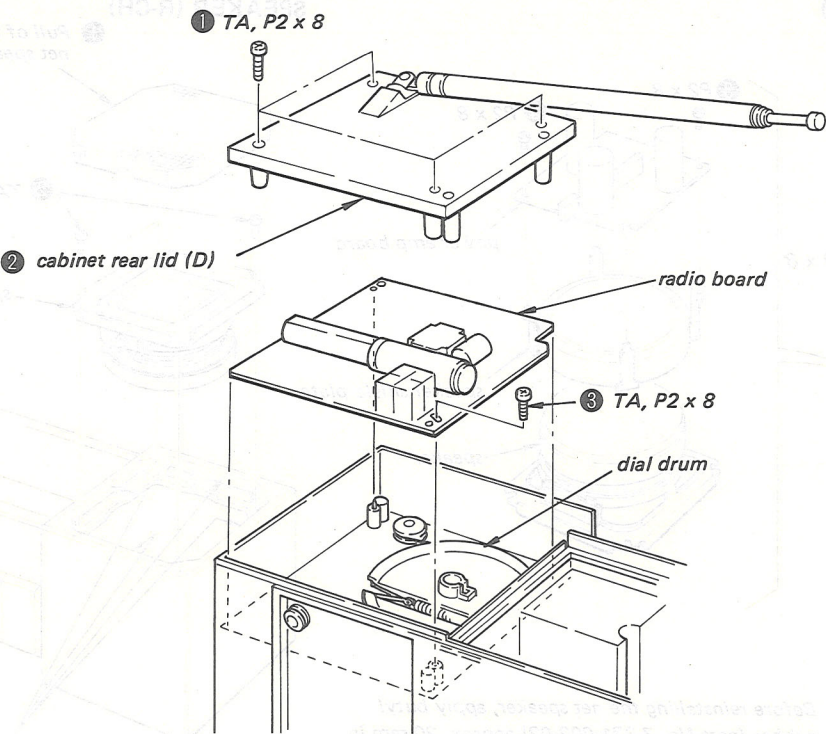
SPEAKER (R-CH)



CASSETTE HOLDER



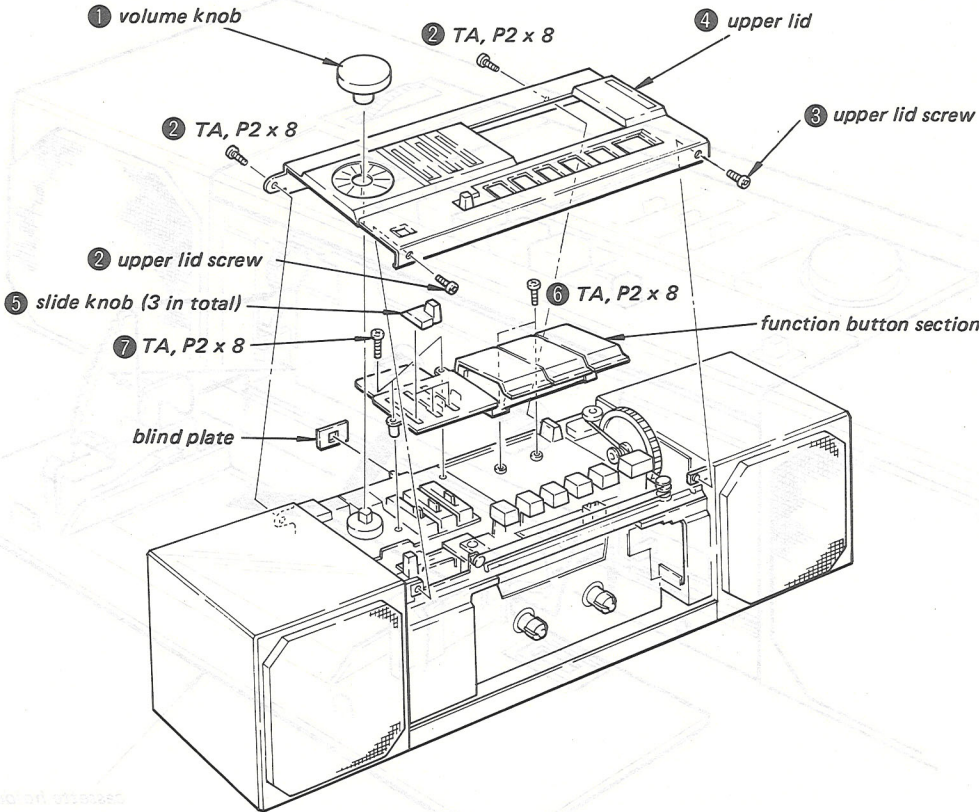
RADIO BOARD



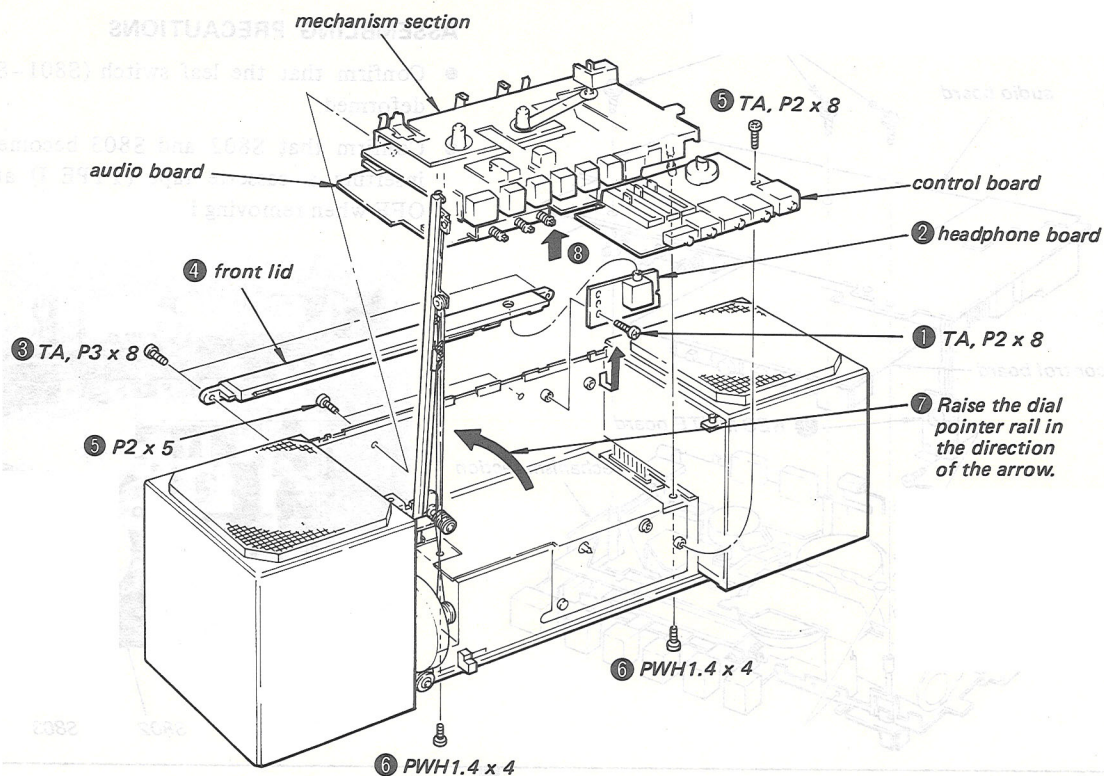
DIAL CORD
STRINGING

(See page 16.)

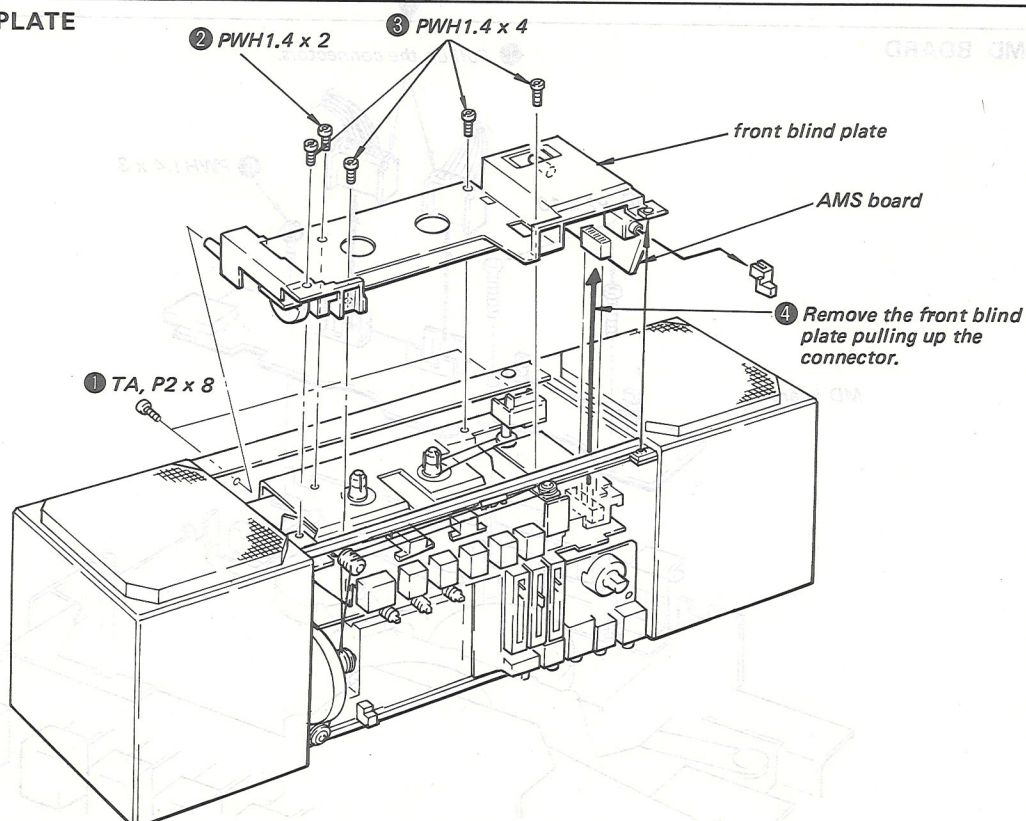
UPPER LID/FUNCTION BUTTON SECTION



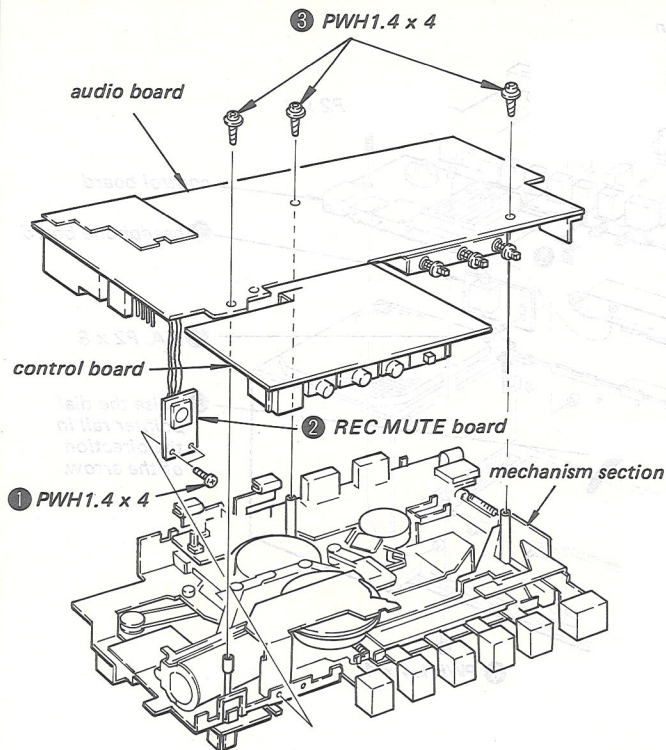
MECHANISM SECTION / AUDIO BOARD / CONTROL BOARD (1)



FRONT BLIND PLATE

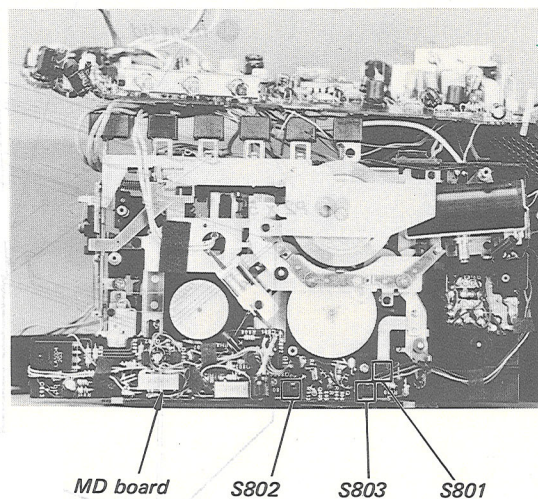


MECHANISM SECTION / RADIO BOARD / CONTROL BOARD (2)

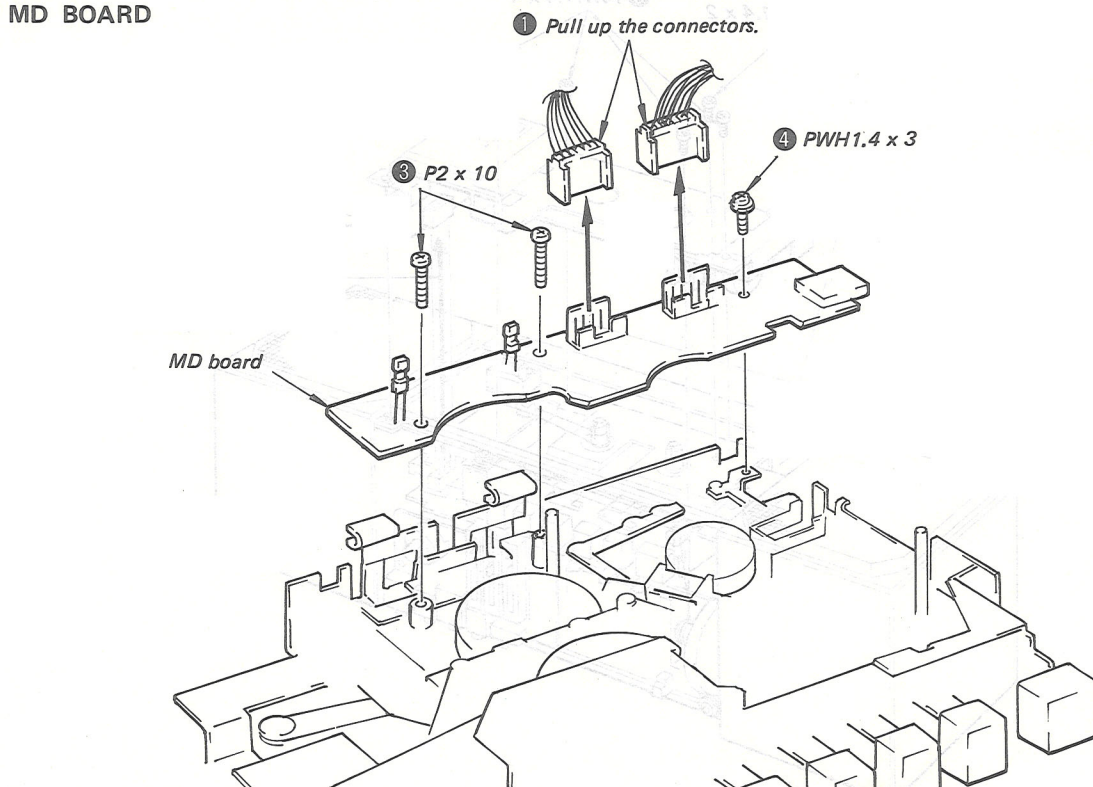


ASSEMBLING PRECAUTIONS

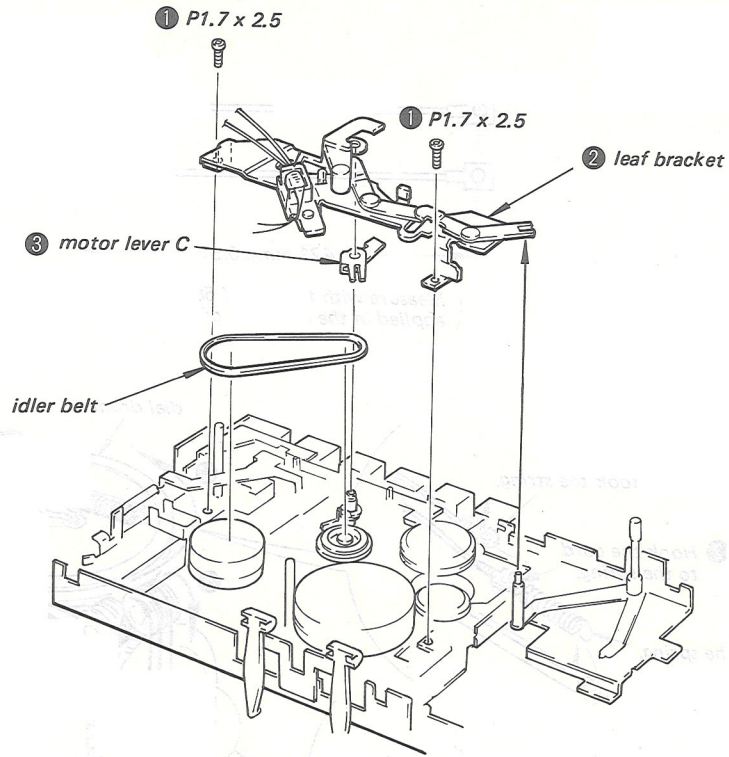
- Confirm that the leaf switch (S801–803) is not deformed.
- Confirm that S802 and S803 become ON when inserting a cassette tape (TYPE I) and become OFF when removing it.



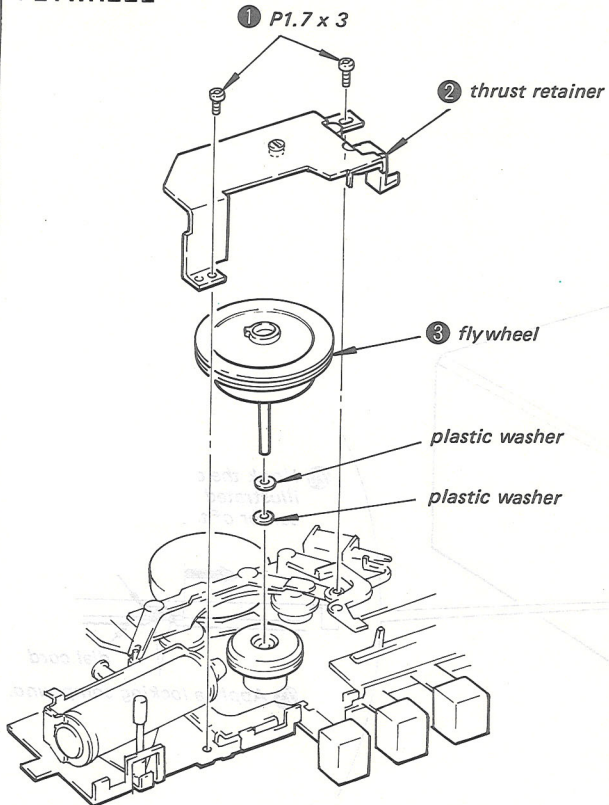
MD BOARD



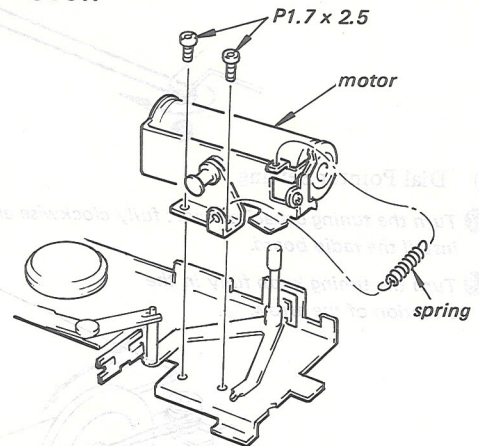
IDLER BELT



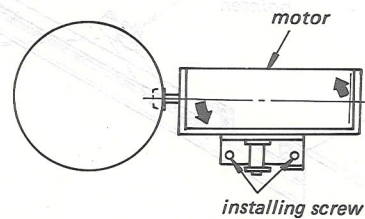
FLYWHEEL



MOTOR



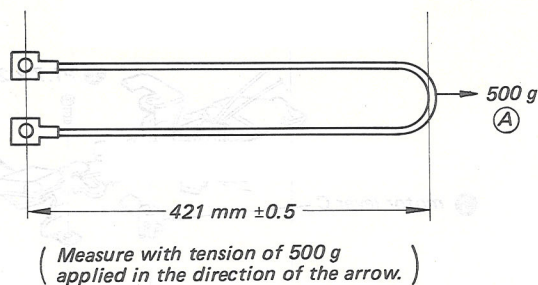
ASSEMBLING PRECAUTION



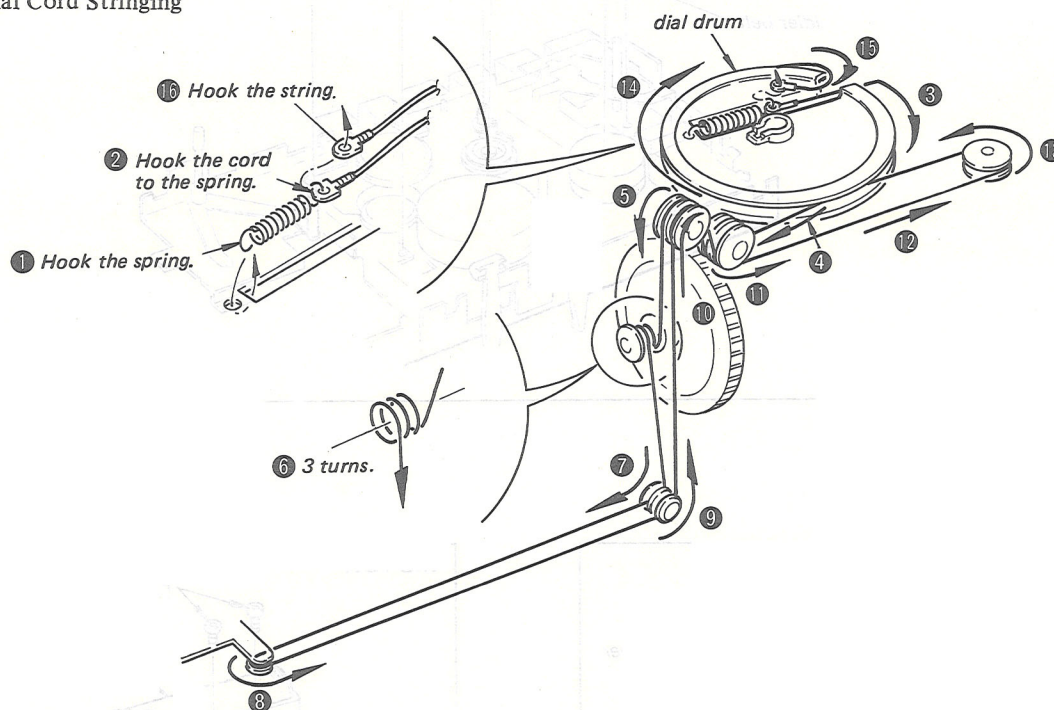
Motor installation: Tighten the screws while moving the motor in the direction of the arrow.

DIAL CORD STRINGING

1) Dial Cord Preparation

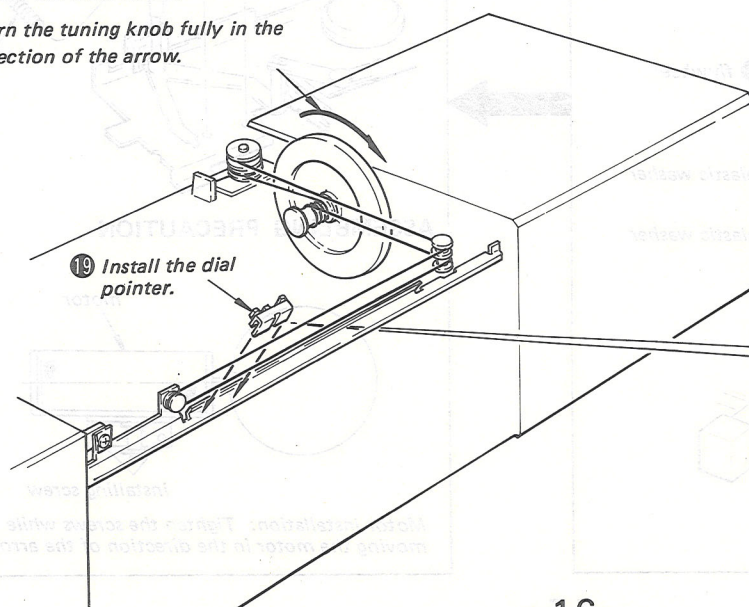


2) Dial Cord Stringing

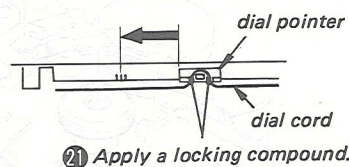


3) Dial Pointer Setting

- 17 Turn the tuning capacitor shaft fully clockwise and install the radio board.
- 18 Turn the tuning knob fully in the direction of the arrow.



- 20 Hook the dial cord as illustrated and set for the center of the scratched line.



SECTION 3

ADJUSTMENTS

MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller flywheel
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (6 V) unless otherwise noted.

Torque Measurement

Place the set vertically

Torque Meter Required:

FWD (REC) Back Tension CQ-102B

FF, REW CQ-201B

Specification:

1. FWD (REC) 24 – 45 g·cm
2. Back Tension 3 – 4 g·cm
3. FF more than 80 g·cm
4. REW more than 80 g·cm
5. Torque fluctuation: (FWD) +4 g·cm
(Back Tension) ± 0.5 g·cm

(Take minimum reading for the lowest limit)
(and maximum reading for the highest limit.)

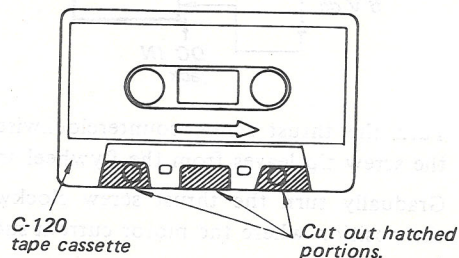
* Measure 3 times for FF, REW torques and take these average values.

Head Height Adjustment

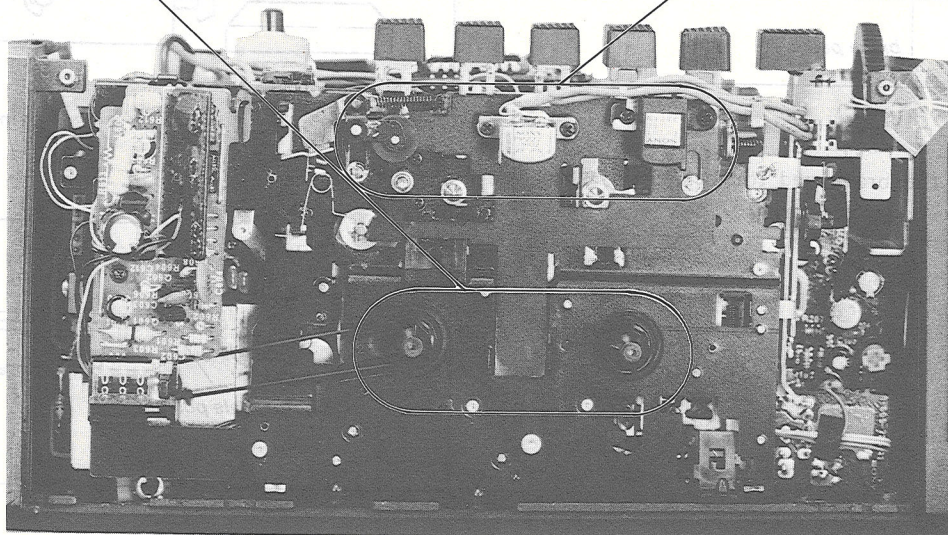
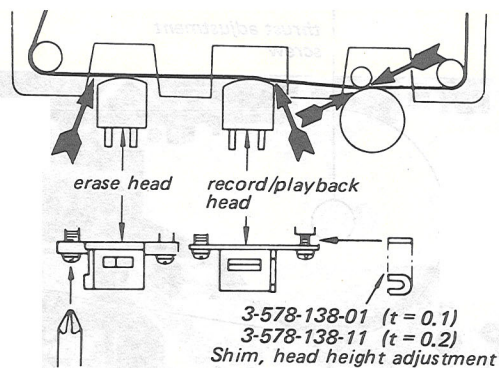
Mode: Playback

Procedure:

1. Prepare an adjustment cassette as shown below.

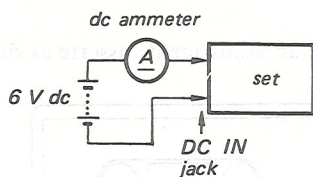


2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at arrowed portions.



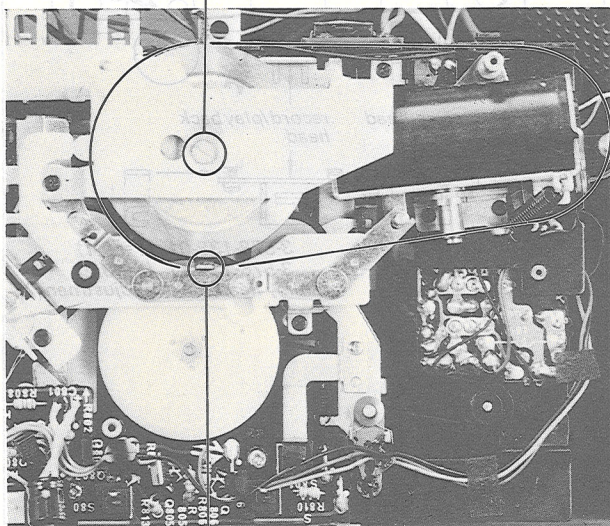
Flywheel Thrust Play Adjustment

— Playback Mode —



1. Turn the thrust screw counterclockwise until the screw tip leaves from the flywheel shaft.
2. Gradually turn the thrust screw clockwise to the position where the motor current suddenly increases.
3. Then, turn the thrust screw counterclockwise about 20° – 30° from the position obtained in step 2.

thrust adjustment screw



brake pad

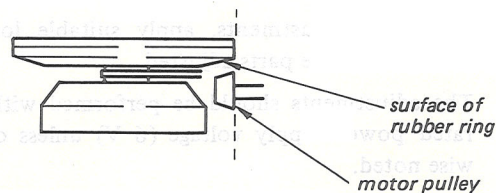
Brake Check

STOP:

Confirm that the brake pad touches the flywheel and the flywheel does not turn.

MOTOR-PULLEY POSITION CHECK

1. Place the set horizontally.
2. In forward, fast-forward or in rewind mode, the motor pulley's inner edge (large side) should not extend from the edge of the flywheel's rubber ring.
3. When the mode is changed from forward, fast-forward or from rewind by slowly pressing the stop button, the motor-pulley and rubber surface of the flywheel should have clearance.

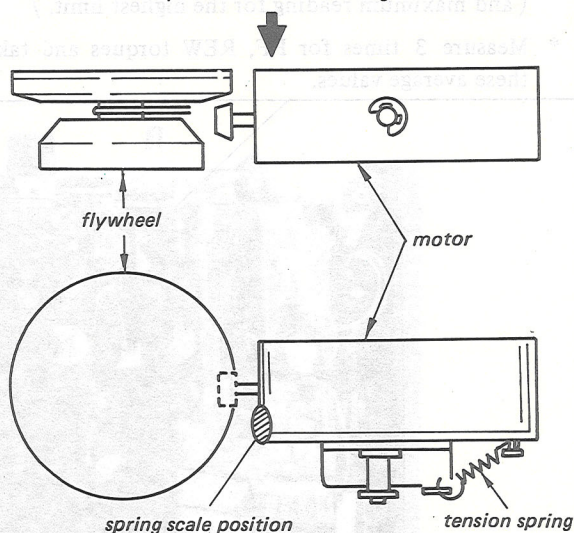


MOTOR-PULLEY PRESSURE ADJUSTMENT

— Forward mode —

1. Place the set horizontally.
2. Put a spring scale vertically on the edge of the motor holder as shown below.
3. Push the spring scale down vertically until the motor pulley just detaches from the flywheel's rubber ring and read the spring scale at this instance.
4. If necessary, adjust the tension of the tension spring or change the spring.

spring scale position
specification: 75–105 g



ELECTRICAL ADJUSTMENTS

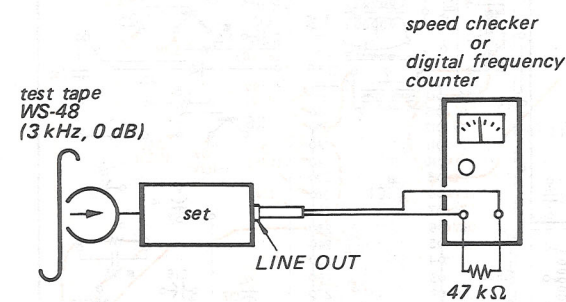
Tape Speed Adjustment

Setting:

VOLUME control: mechanical mid

Procedure:

Mode: playback

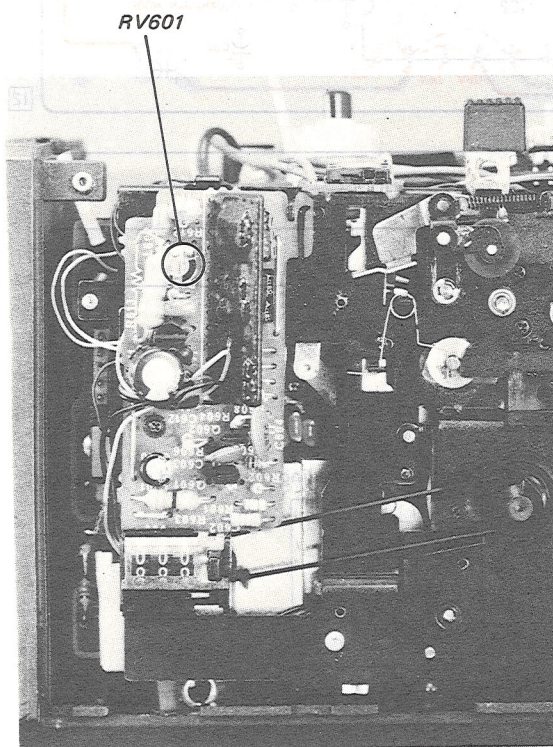


Specification:

Speed checker	Digital frequency counter
+3 -2.5 %	2,925 to 3,090 Hz

Frequency difference between the beginning and the end of the tape should be within 1 % (30 Hz).

Adjustment Location:

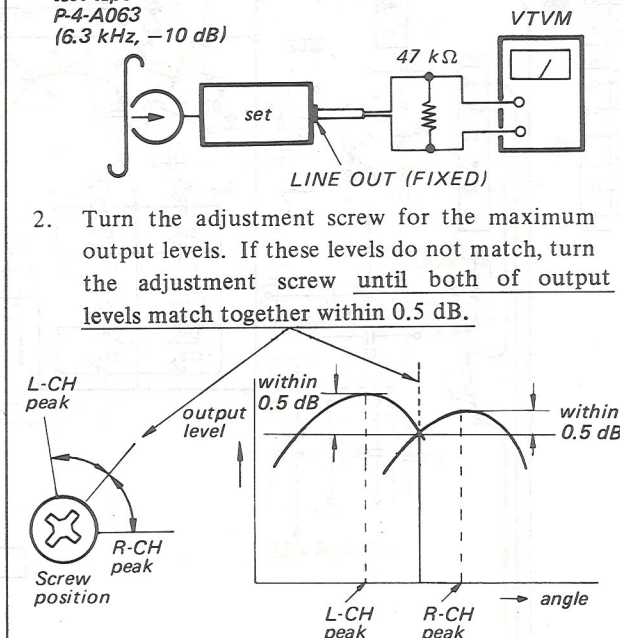


Record/playback Head Azimuth Adjustment

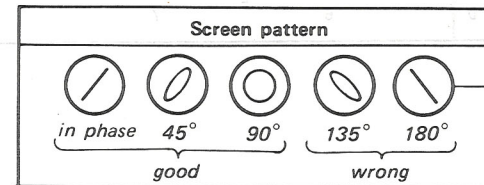
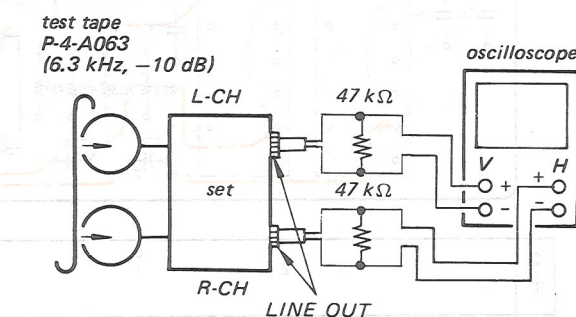
Procedure:

1. Mode: playback

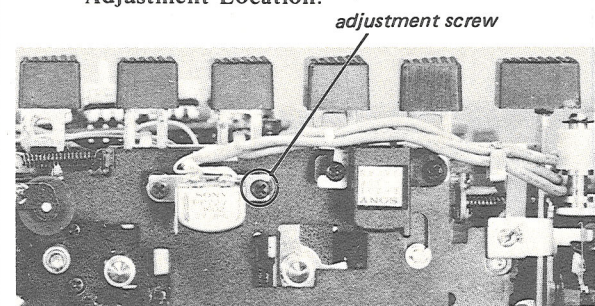
test tape
P-4-A063
(6.3 kHz, -10 dB)



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



Adjustment Location:



Playback Level Adjustment

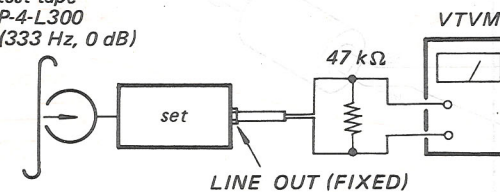
Setting:

FUNCTION switch: TAPE (RADIO OFF)
DOLBY switch: OFF

Procedure:

Mode: playback

test tape
P-4-L300
(333 Hz, 0 dB)

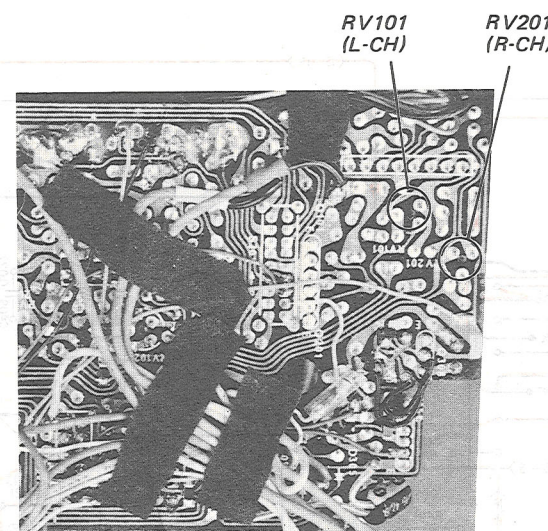


Specification:

LINE OUT level: -9.2 ± 0.2 dB
Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: audio board



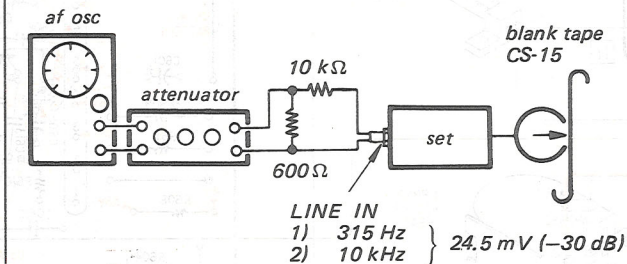
Record Bias Adjustment

Setting:

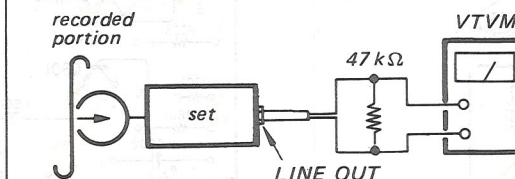
FUNCTION switch: TAPE (RADIO OFF)
DOLBY switch: OFF

Procedure:

1. Mode: record



2. Mode: playback

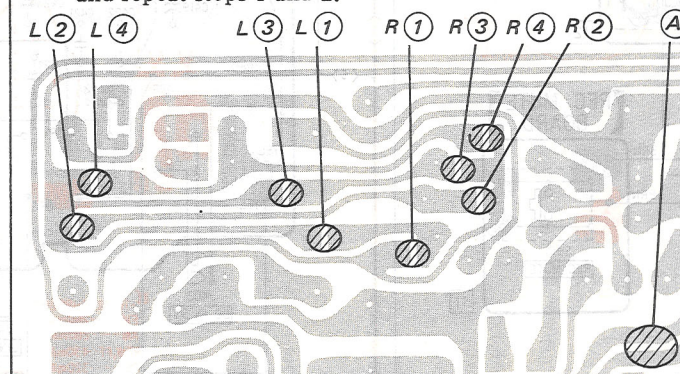


- Confirm that the LINE OUT level of 10 kHz signal is within $0^{+1.5}_{-2.5}$ dB relative to that of 315 Hz.
- If necessary, change the pattern connections and repeat the steps given above.

Pattern Connection		VTVM reading (10 kHz)
L-CH	R-CH	
L ①	R ①	high ↑ low
L ②	R ②	
L ③	R ③	
L ④	R ④	

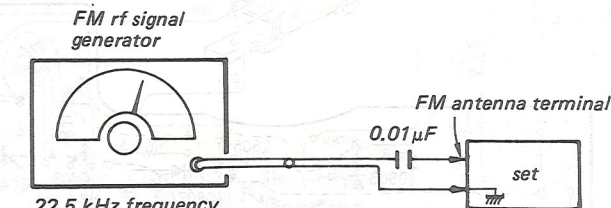
Note: Adjust L-CH and R-CH separately and connect only one portion of L ① - ④ (L-CH) and R ① - ④ (R-CH).

- When the satisfactory result is not obtained in step 2, change the pattern connection of ① and repeat steps 1 and 2.



RADIO SECTION

FM SECTION



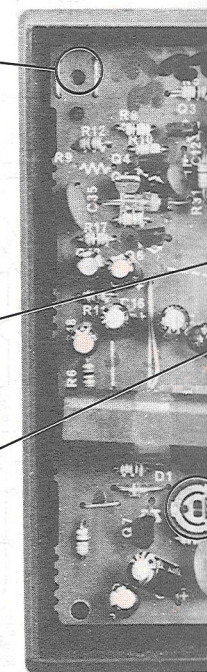
22.5 kHz frequency deviation by 400 Hz signal (modulation turned off for IF Alignment 2.)

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM TR
Adjust VTVM.
US, Canada UK : 10
E : 10
AEP : 10
CT

FM antenna terminal

FM FREQUENCY COVERAGE ADJUSTMENT		
Adjust for maximum reading on VTVM		
US, Canadian, UK : 75 MHz	L5	
E : 87.1 MHz AEP : 87.35 MHz		
US, Canadian, UK : 109.5 MHz	CT4	
E : 108.5 MHz AEP : 107.8 MHz		

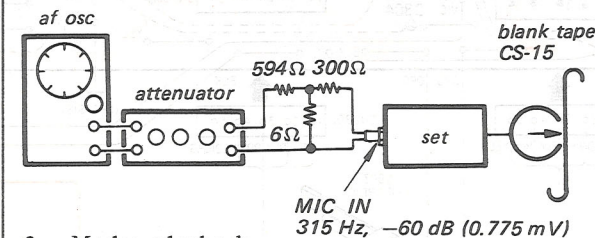


Record Level Adjustment

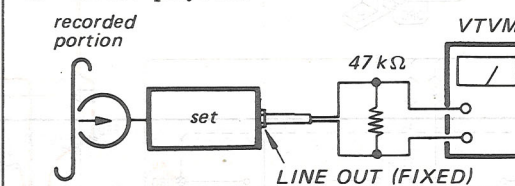
Setting:
FUNCTION switch: TAPE (RADIO OFF)
DOLBY switch: OFF

Procedure:

- Mode: record



- Mode: playback

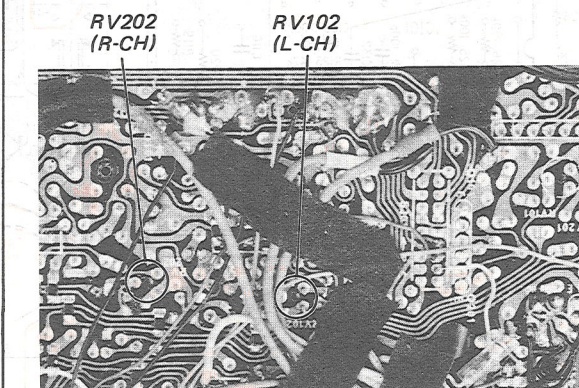


Playback the recorded tape and measure the LINE OUT level.

Adjust RV102/RV202 to obtain the specification and repeat the step 1 and 2.

Specification: -9.2 ± 0.5 dB

Adjustment Location: audio board

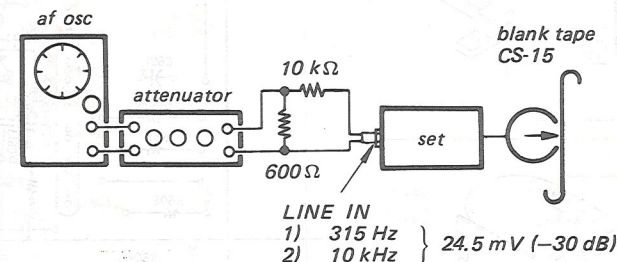


Record Bias Adjustment

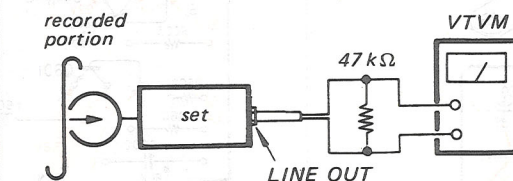
Setting:
FUNCTION switch: TAPE (RADIO OFF)
DOLBY switch: OFF

Procedure:

- Mode: record



- Mode: playback

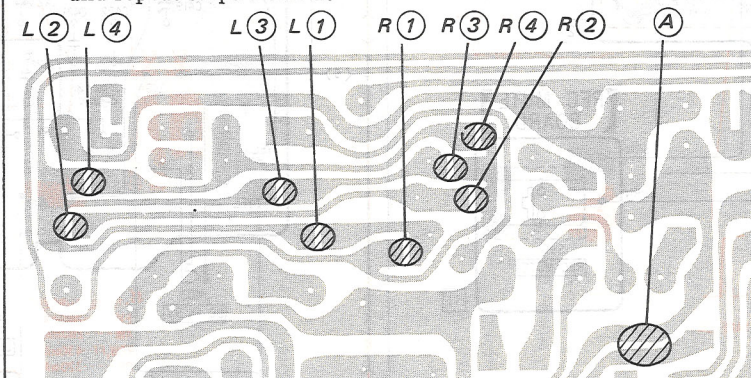


- Confirm that the LINE OUT level of 10 kHz signal is within $0^{+1.5}_{-2.5}$ dB relative to that of 315 Hz.
- If necessary, change the pattern connections and repeat the steps given above.

Pattern Connection		VTVM reading (10 kHz)
L-CH	R-CH	
L ①	R ①	high ↑ low
L ②	R ②	
L ③	R ③	
L ④	R ④	

Note: Adjust L-CH and R-CH separately and connect only one portion of L ① - ④ (L-CH) and R ① - ④ (R-CH).

- When the satisfactory result is not obtained in step 2, change the pattern connection of ① and repeat steps 1 and 2.

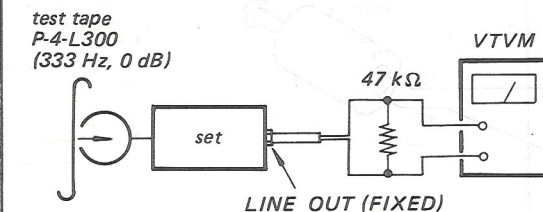


Playback Level Adjustment

Setting:
FUNCTION switch: TAPE (RADIO OFF)
DOLBY switch: OFF

Procedure:

Mode: playback

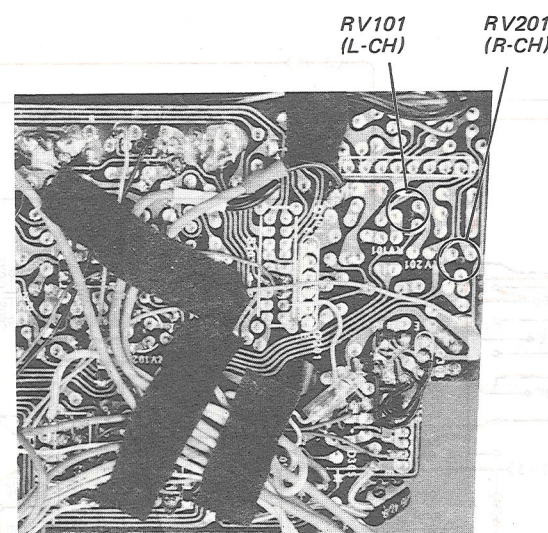


Specification:

LINE OUT level: -9.2 ± 0.2 dB
Level difference between channels:
less than 0.5 dB

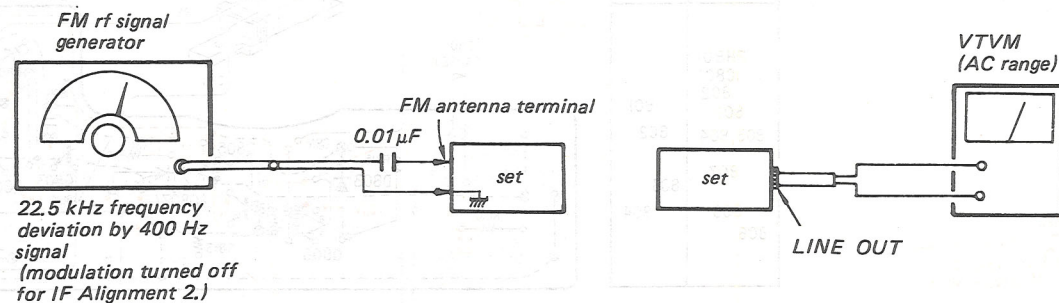
Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: audio board



RADIO SECTION

FM SECTION

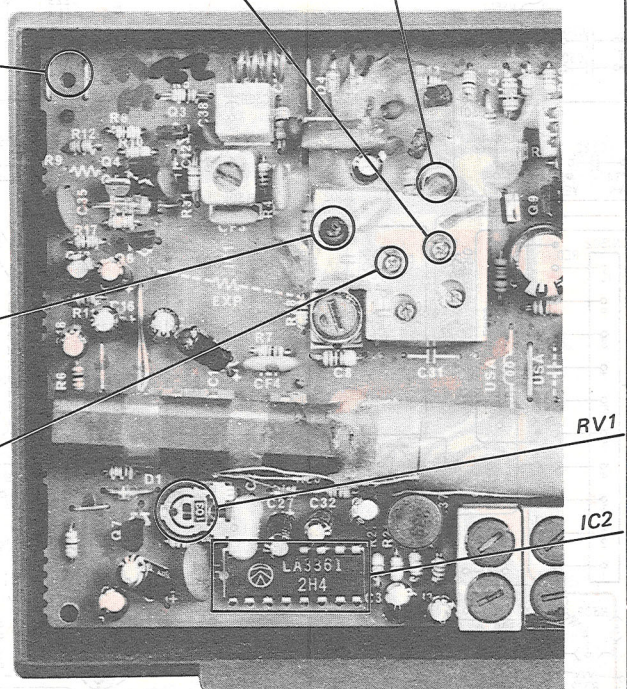


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM TRACKING ADJUSTMENT	
Adjust for maximum reading on VTVM.	
US, Canadian, UK : 100 MHz	US, Canadian, UK : 83 MHz
E : 108.5 MHz	E : 87.1 MHz
AEP : 107.8 MHz	AEP : 87.35 MHz
CT3	L1

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for maximum reading on VTVM	
US, Canadian, UK : 75 MHz	L5
E : 87.1 MHz	
AEP : 87.35 MHz	
US, Canadian, UK : 109.5 MHz	CT4
E : 108.5 MHz	
AEP : 107.8 MHz	

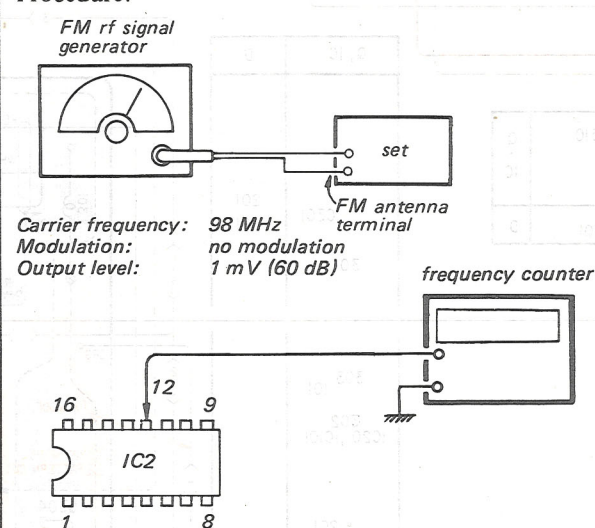
FM antenna terminal



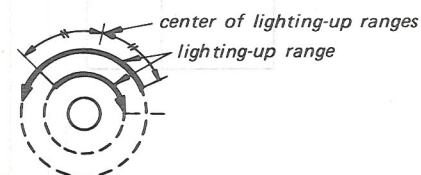
VCO Adjustment

A) Regular Method

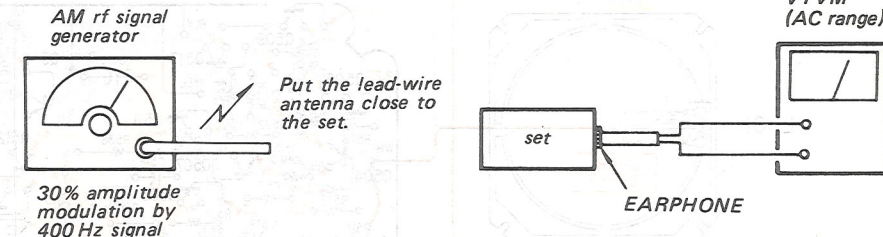
Procedure:



- Tune the set to 98 MHz.
 - Adjust RV1 for 19 kHz ± 0.1 kHz on the counter.
- B) Simple Method
- Procedure:
- Tune the set to the FM stereo broadcasting signal.
 - Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
 - Secure RV1 at the center of the lighting-up range of both turns as shown below.



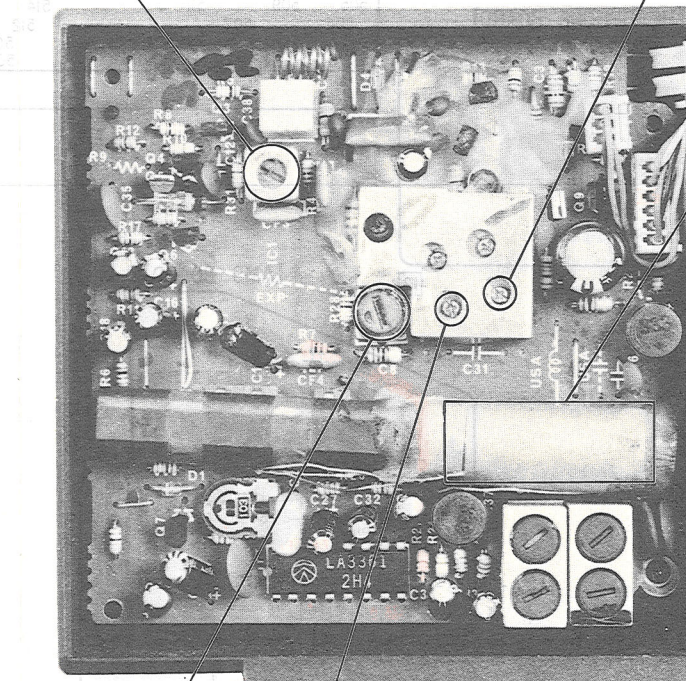
AM SECTION



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ADJUSTMENT	
Adjust for maximum reading on VTVM.	
T2	455 kHz
	UK: 463 kHz

AM TRACKING ADJUSTMENT	
Adjust for maximum reading on VTVM.	
1,400 kHz	620 kHz
CT2	L2

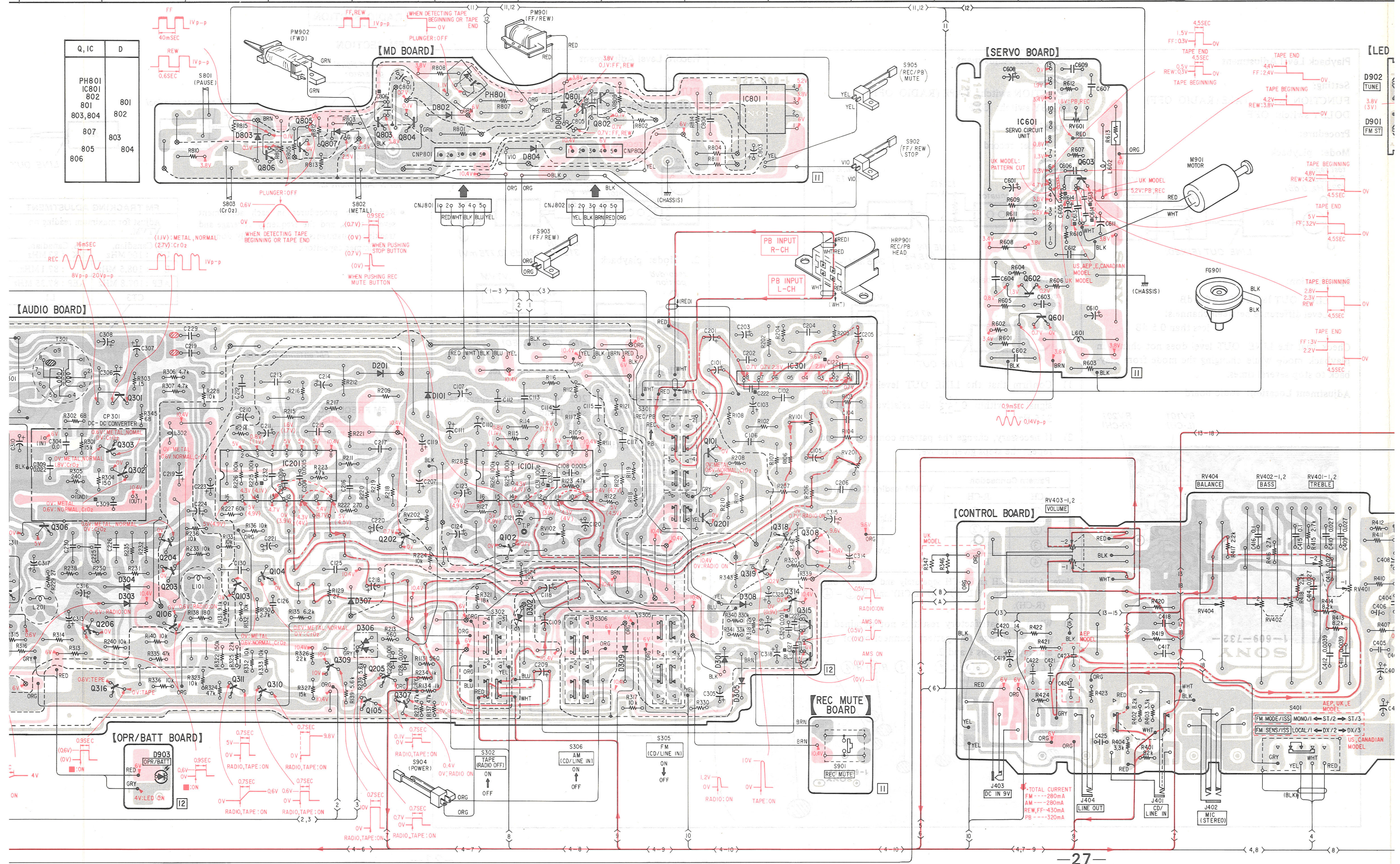


AM FREQUENCY COVERAGE ADJUSTMENT	
T1	CT1
520 kHz	1,680 kHz
Adjust for maximum reading on VTVM.	

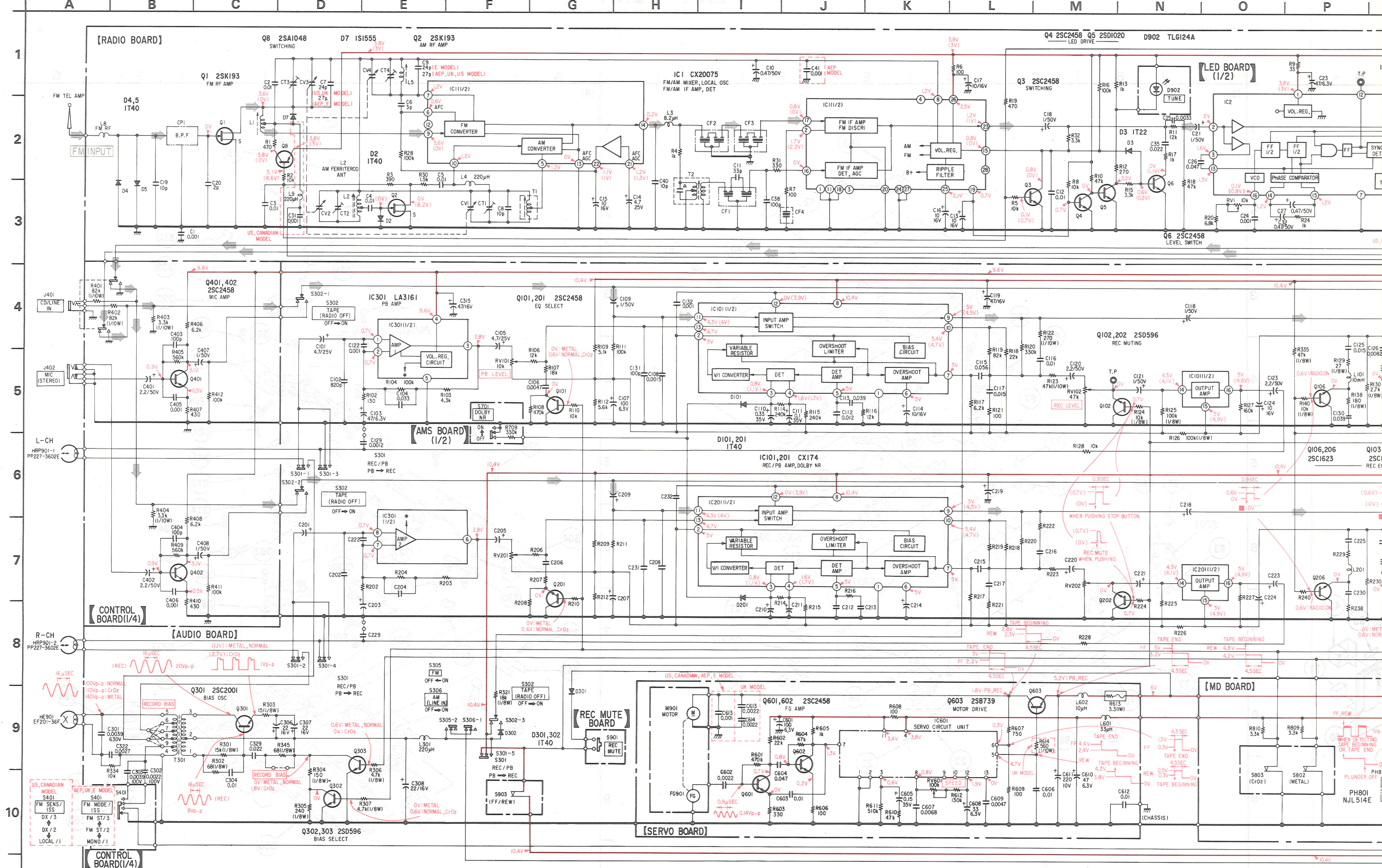
● See page 34 for Semiconductor Lead Layouts.

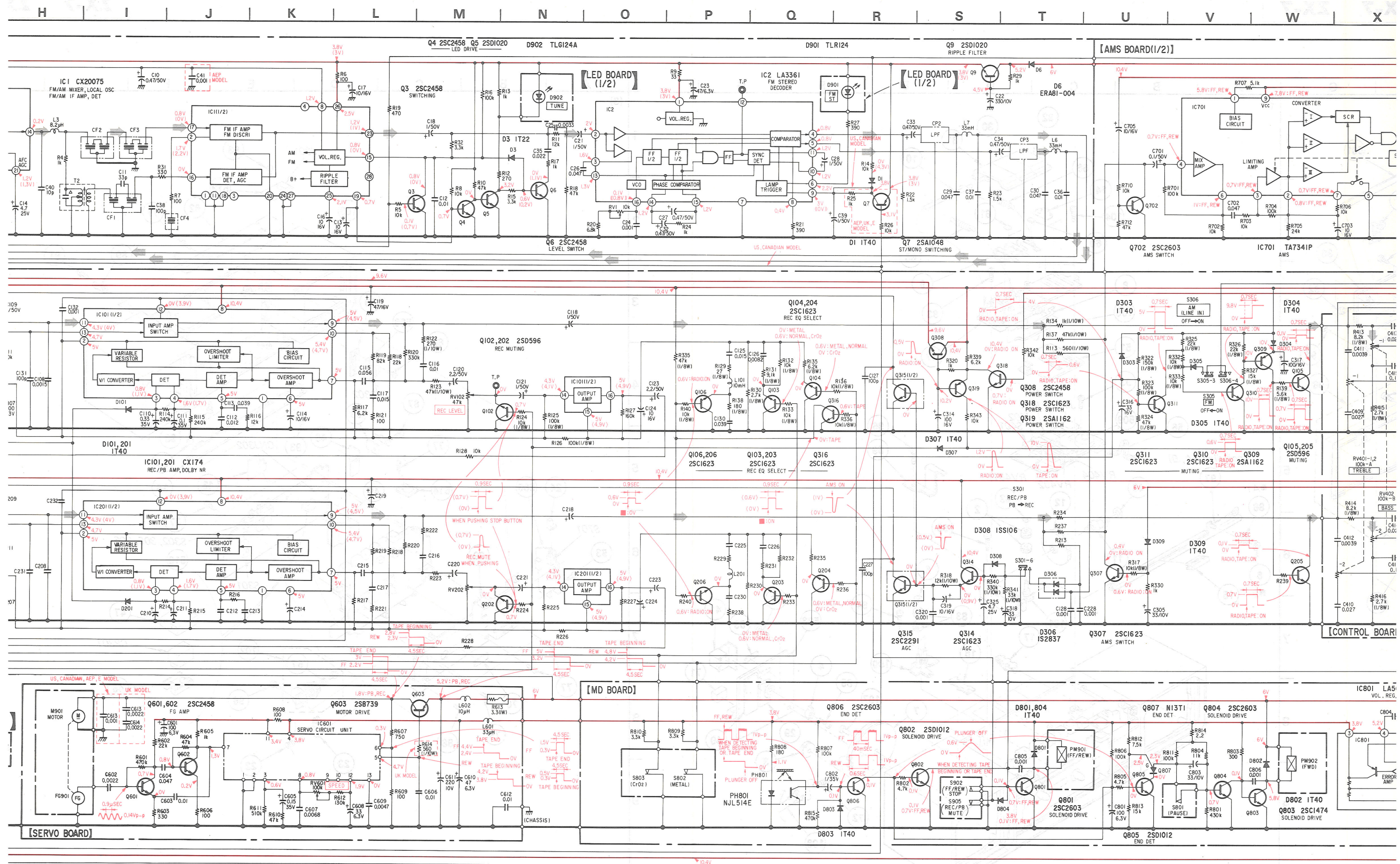


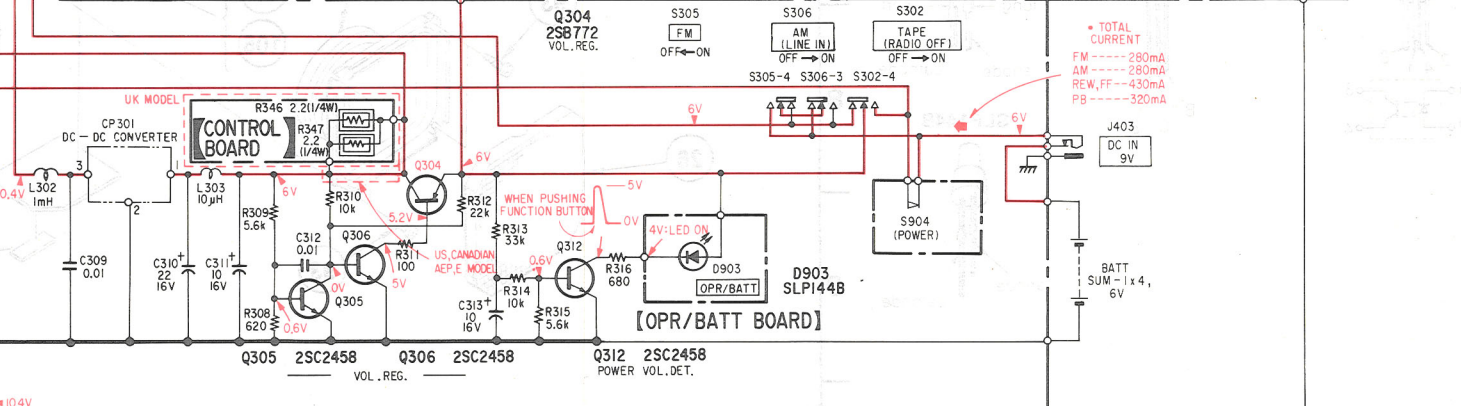
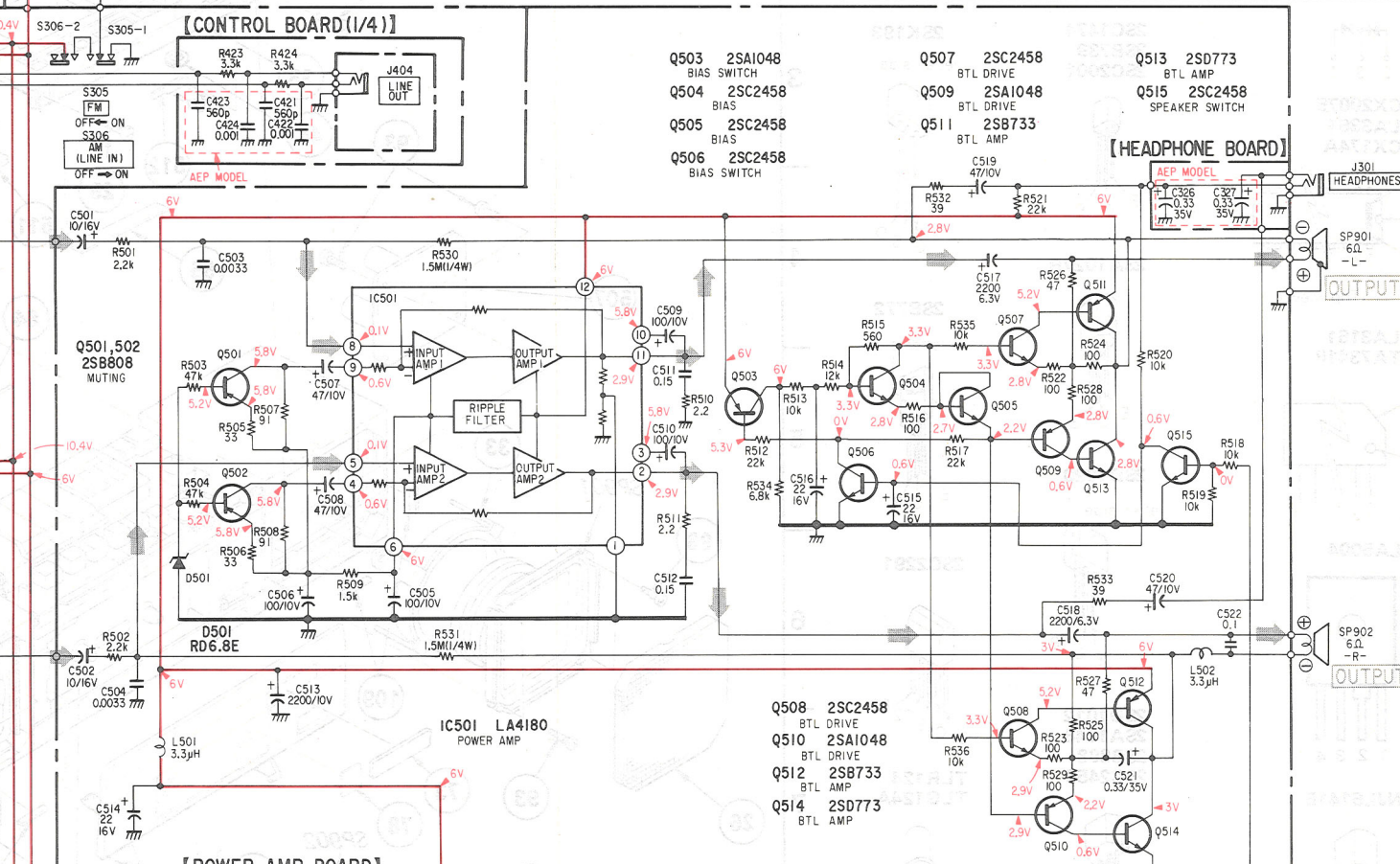
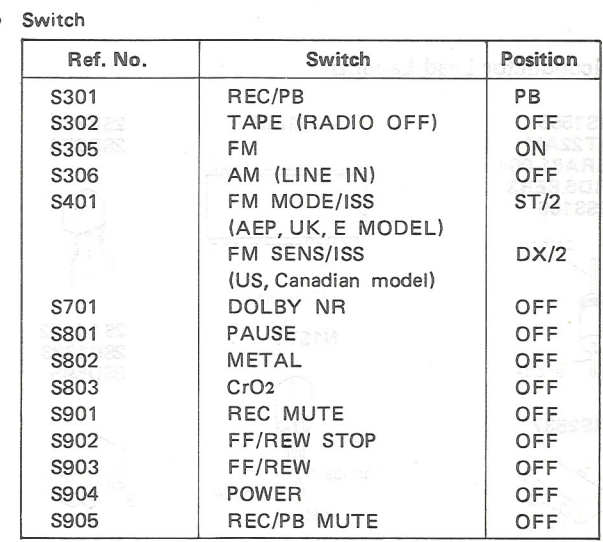
Q, IC	D
PH801	
IC801	
802	
801	801
803,804	802
807	803
805	804
806	



4-2. SCHEMATIC DIAGRAM





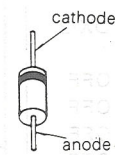


SECTION 5

EXPLODED VIEWS AND PARTS LIST

Semiconductor Lead Layouts

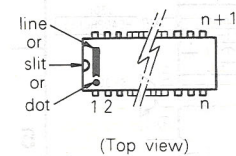
1S1555
1T22AM
ERA81-004
RD6.8EB3
1SS106



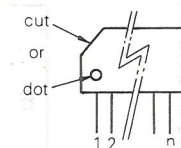
1S2837



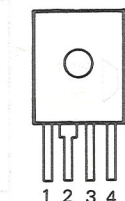
CX20075
LA3361
CX174A



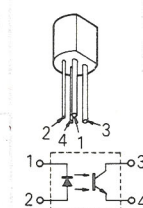
LA3161
TA7341P



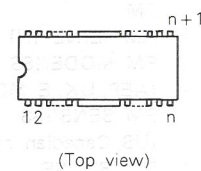
LA5004



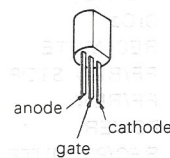
NJL5141E



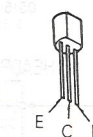
LA4180P



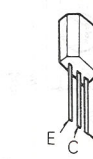
N13T1



2SC1474
2SB739
2SC2001



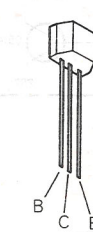
2SA1027R



2SD1020



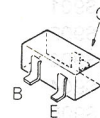
2SD1012
2SA1048
2SB808
2SC2458



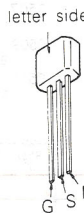
2SB733
2SD773



2SA1162
2SC1623
2SD596



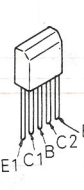
2SK193



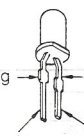
2SB772



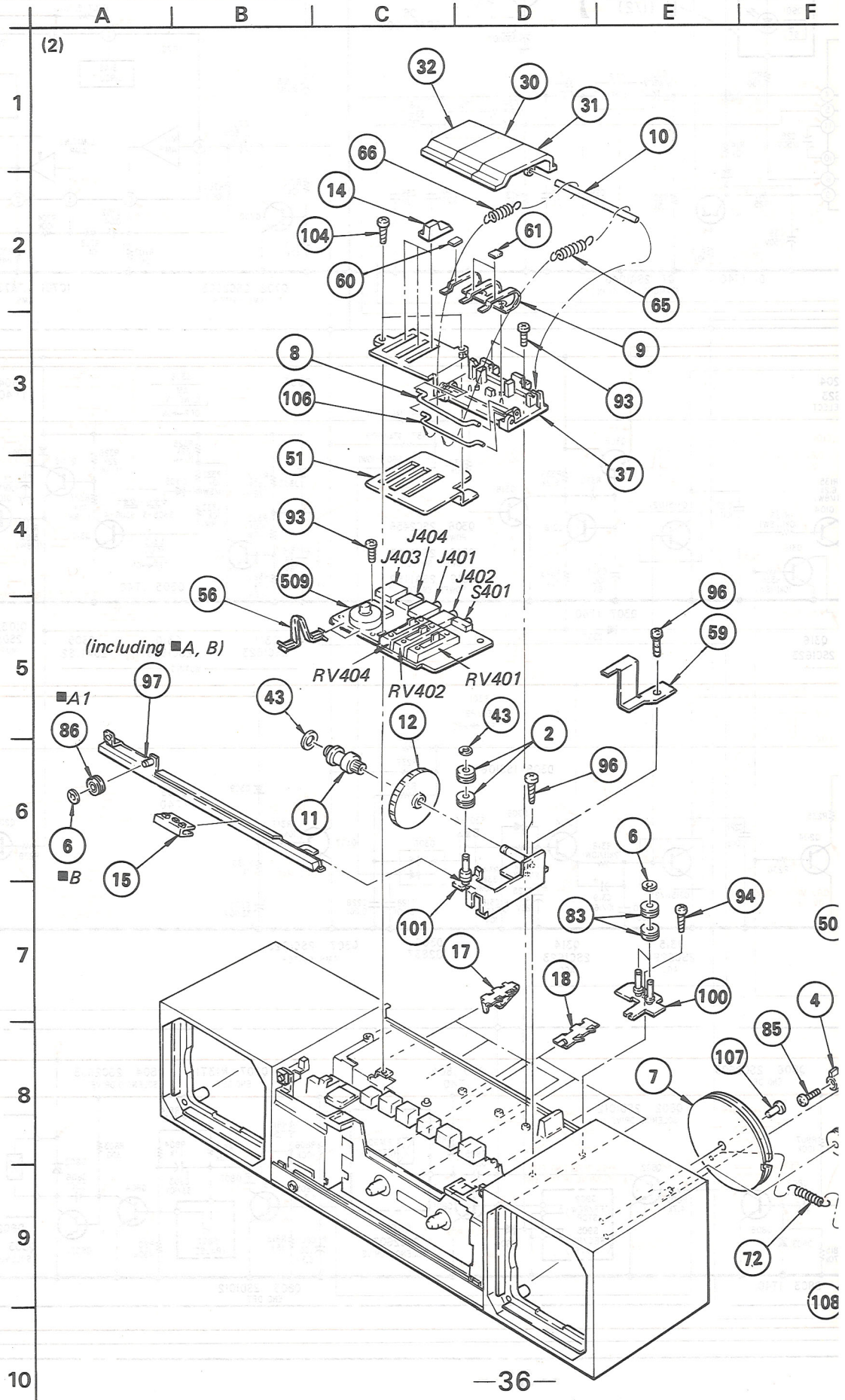
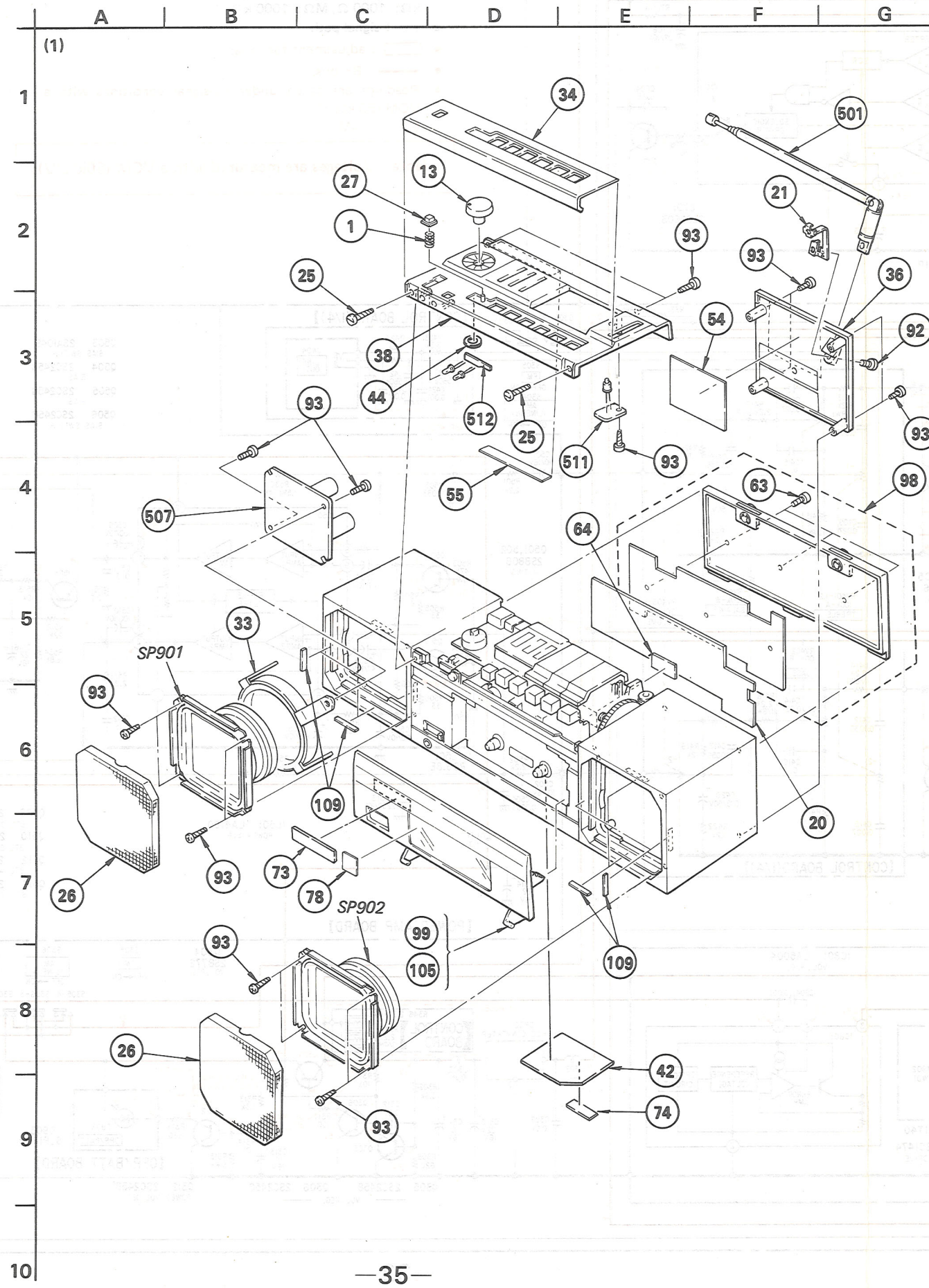
2SC2291

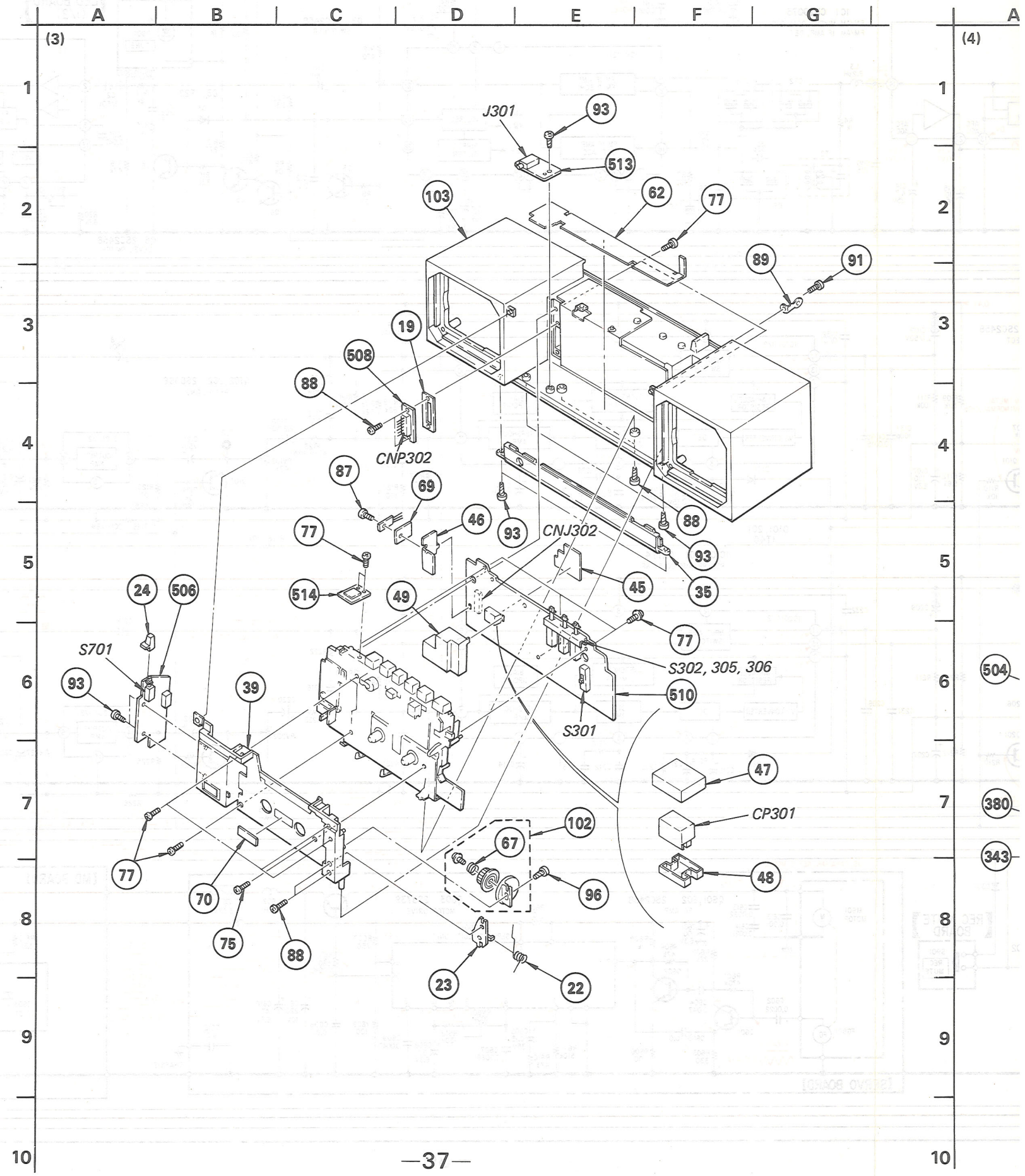
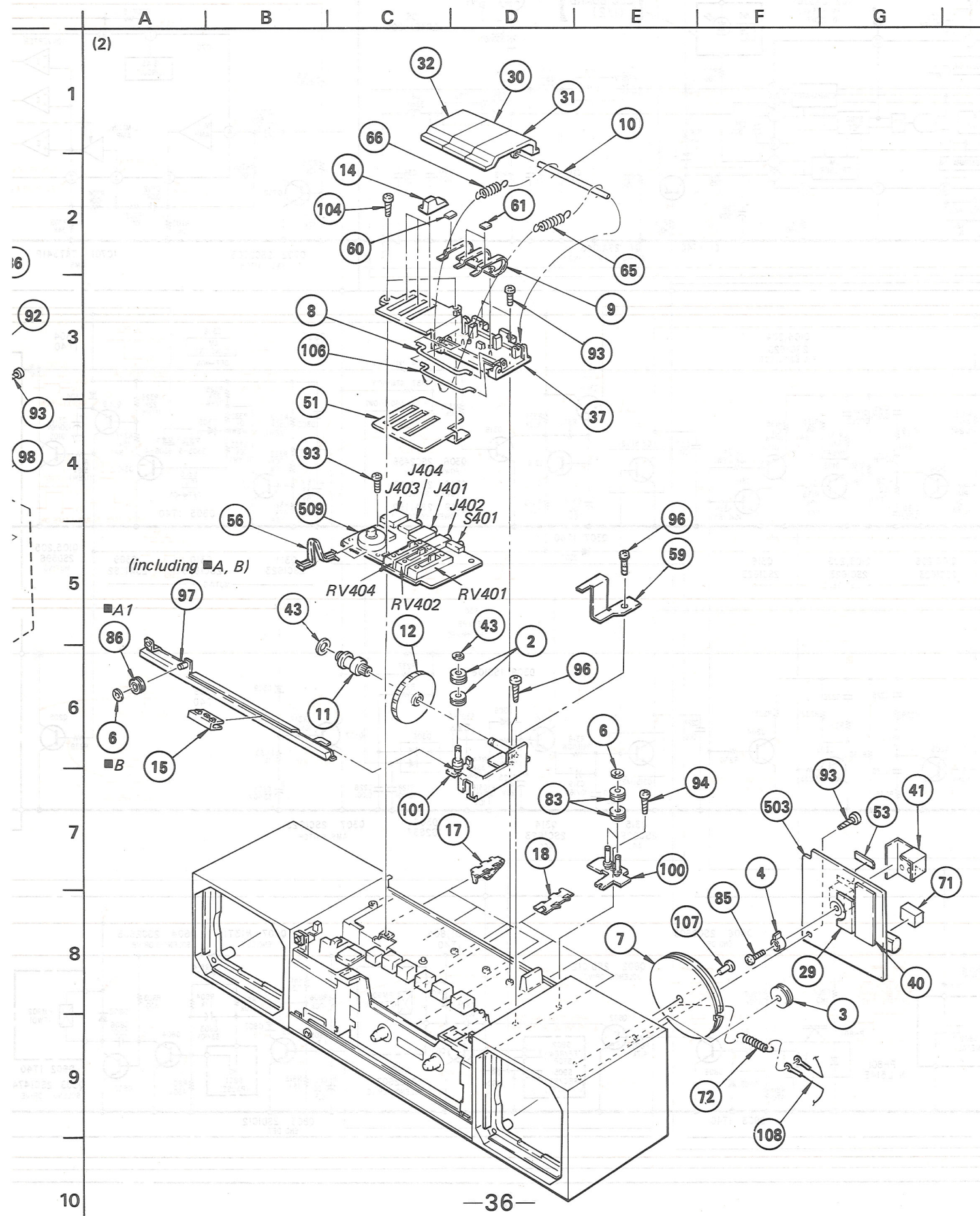


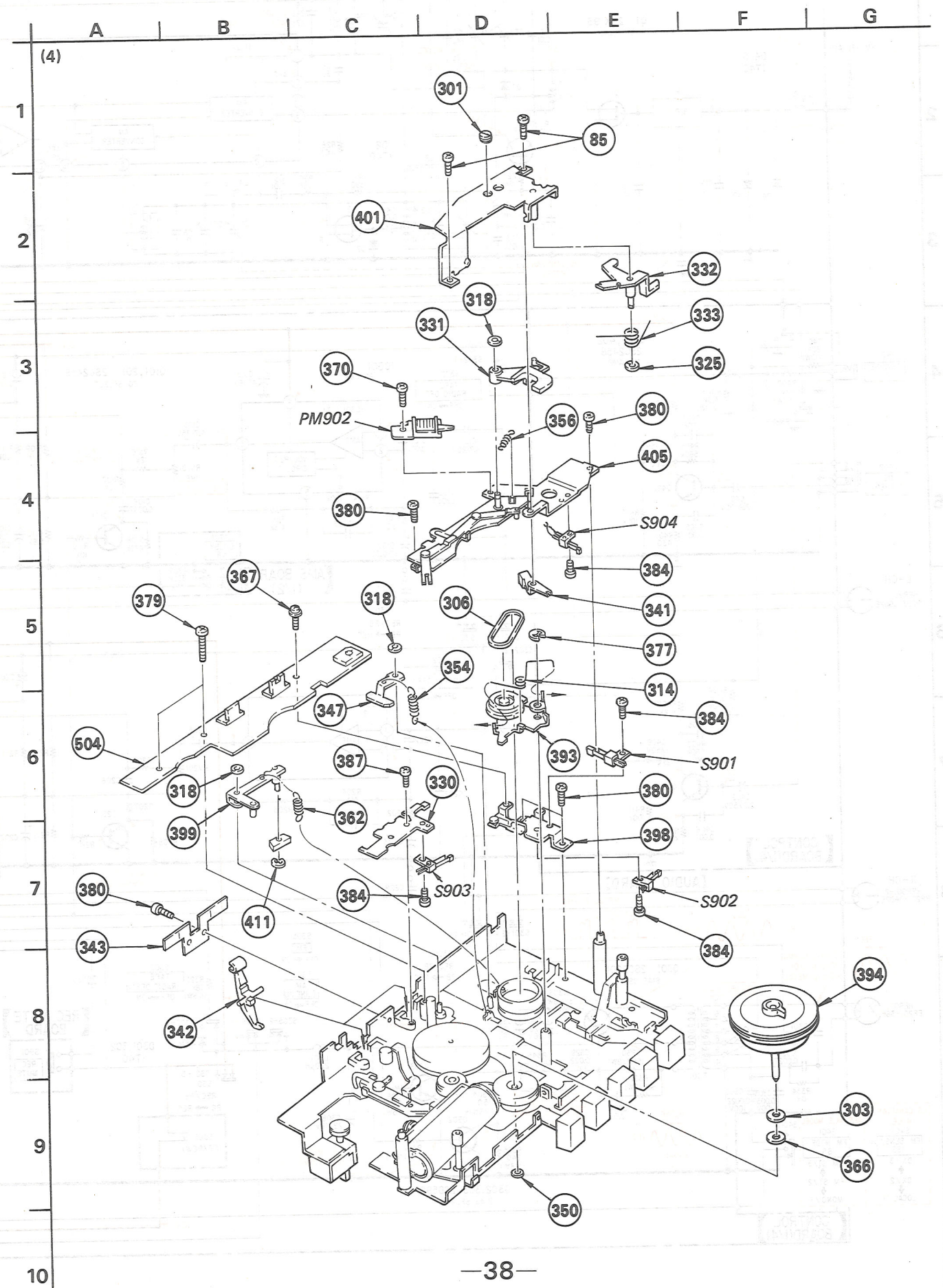
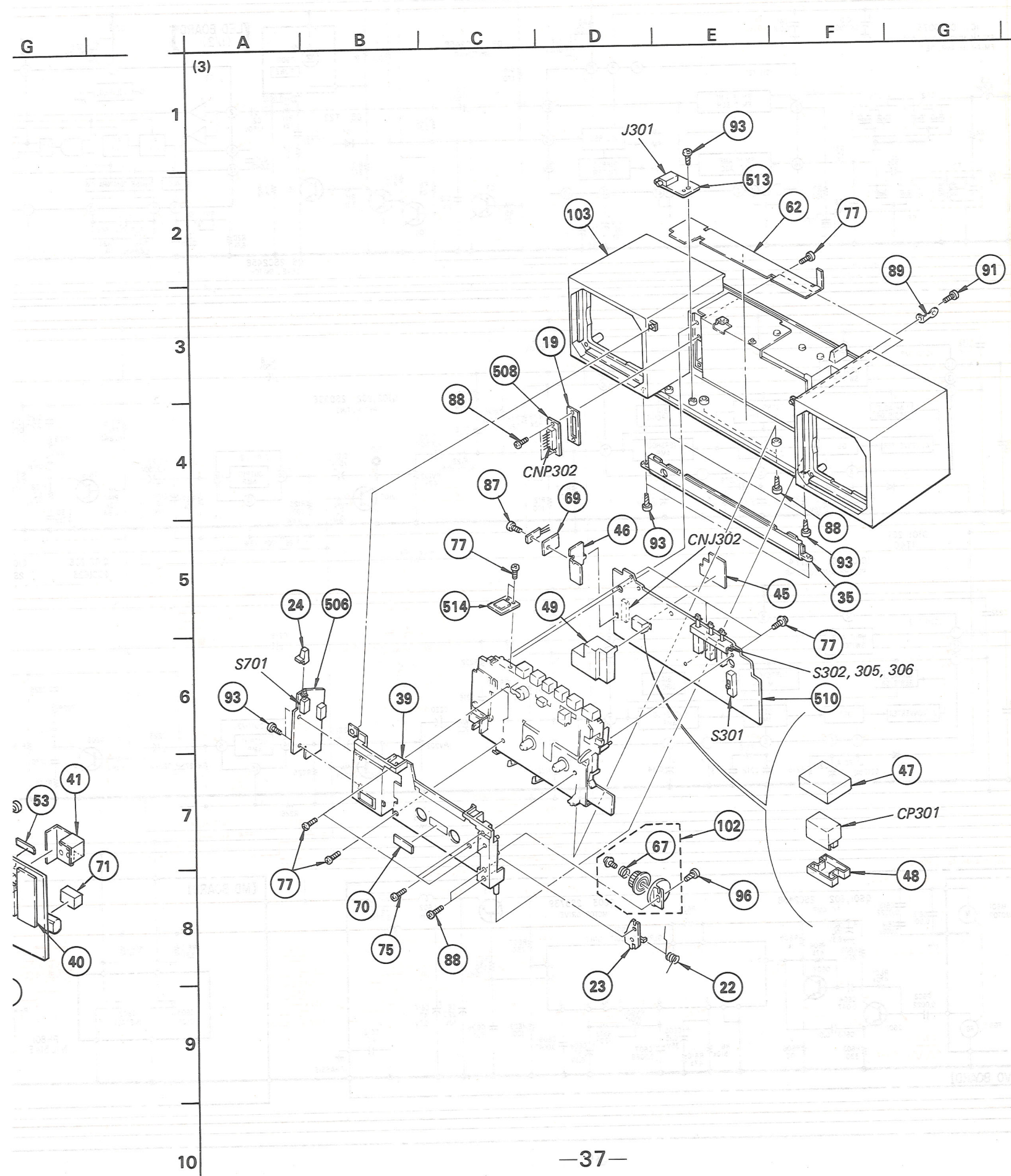
TLR124
TLG124A



SLP144B









GENERAL SECTION

No.	Part No.	Description
1	3-303-973-00	SPRING, COMPRESSION
2	3-304-108-00	PULLEY
3	3-304-109-00	PULLEY
4	3-305-625-00	CAP, TUNING CAPACITOR
5	.....	
6	3-307-948-01	WASHER, NYLON
7	3-314-401-00	DRUM, DIAL
8	3-314-403-00	SHAFT (A), LOCK
9	3-314-404-00	SPRING
10	3-314-406-00	SHAFT, FULCRUM
11	3-314-408-00	SHAFT, TUNING
12	3-314-409-00	KNOB, TU
13	3-314-413-00	KNOB, CONTROL
14	3-314-414-00	KNOB, SLIDE
15	3-314-415-00	POINTER
16	.....	
17	3-314-418-00	TERMINAL BOARD, MINUS
18	3-314-419-00	TERMINAL BOARD, PLUS
19	3-314-421-00	RUBBER, CLOSE UP, PC BOARD
20	3-314-424-00	PLATE, INDICATION, POLARITY
21	3-314-425-00	TERMINAL BOARD, ANTENNA
22	3-314-426-00	SPRING
23	3-314-427-00	BRACKET, HOLDER SPRING
24	3-314-428-00	BUTTON, DOLBY
25	3-314-431-00	SCREW, ORNAMENTAL, UPPER LID
26	3-314-432-00	NET, SPEAKER
27	3-314-433-00	BUTTON, REC MUTE
28	.....	
29	3-314-441-00	PLATE (A), SHIELD, TU
30	3-314-445-00	BUTTON, AM
31	3-314-446-00	BUTTON, FM
32	3-314-447-00	BUTTON, RESET
33	3-314-448-00	PLATE, SHIELD, SPEAKER
34	3-314-449-00	PANEL, UPPER
35	3-314-450-00	LID, FRONT
36	3-314-453-00	LID (D), REAR, CABINET
37	3-314-456-00	CHASSIS, RETAINER
38	3-314-457-01	(AEP,UK,E)...LID, UPPER
38	3-314-457-11	(US,Canadian)...LID, UPPER
39	3-314-458-00	PLATE, BLIND, FRONT
40	3-314-461-00	PLATE (B), SHIELD, TU
41	3-314-462-00	PLATE (C), SHIELD, TU
42	3-314-463-00	(US,Canadian)...LABEL, MODEL NUMBER (U)
42	3-314-551-00	(UK)...LABEL, MODEL NUMBER
42	3-314-552-00	(E)...LABEL, MODEL NUMBER
42	3-314-553-00	(AEP)...LABEL, MODEL NUMBER

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA.... : μA...., UPA.... : μPA...., UPC.... : μPC,
UPD.... : μPD....

GENERAL SECTION

No.	Part No.	Description
43	3-314-549-00	WASHER (E-2.3), NYLON
44	3-314-557-00	CUSHION
45	3-314-558-00	PLATE (A), SHIELD, AUDIO
46	3-314-559-00	HEAT SINK
47	3-314-560-00	PLATE (D), SHIELD, AUDIO
48	3-314-561-00	PLATE (E), SHIELD, AUDIO
49	3-314-562-00	PLATE (B), SHIELD, AUDIO
50	.....	
51	3-314-564-00	PLATE, SHIELD, CONTROL
52	.....	
53	3-314-574-00	(US,Canadian,AEP)...PLATE (D),SHIELD,TU
54	3-314-577-00	SEAL (A)
55	3-314-578-00	SEAL (B)
56	3-314-555-00	HINGE, PC BOARD
57	.....	
58	.....	
59	3-314-593-00	RETAINER
60	3-314-594-00	SHEET (E)
61	3-314-595-00	SHEET (F)
62	3-314-601-00	(AEP)...PLATE (F), SHIELD, AUDIO
63	3-315-602-00	SCREW (+PWH 2X3)
64	3-527-213-00	(AEP,UK,E)...LABEL, SERIAL NUMBER
65	3-532-725-00	SPRING, TENSION
66	3-535-347-00	SPRING, TENSION
67	3-536-499-00	SPRING, COMPRESSION
68	3-557-275-00	(US,AEP,E)...COVER, R
69	3-566-928-00	SHEET, INSULATING
70	3-578-101-00	PLATE, ORNAMENTAL
71	3-645-257-00	STOPPER, C-CASSETTE
72	3-670-169-00	SPRING, TENSION
73	3-701-690-00	(UK)...LABEL, MADE IN JAPAN
74	3-701-999-00	(US)...LABEL, SERIAL NUMBER
75	3-703-502-12	SCREW PWH 1.4X2
76	3-703-502-31	SCREW
77	3-703-502-52	SCREW PWH 1.4X4
78	3-703-707-01	STICKER, SONY SYMBOL (21)
79	.....	
80	.....	
81	3-831-441-XX	CUSHION (B), CABINET
82	.....	
83	3-839-611-00	PULLEY
84	.....	
85	3-880-990-00	SCREW (1.7X3), FLAT, (+) SPECIAL
86	3-881-911-00	PULLEY
87	7-621-259-45	SCREW +P 2.6X6

GENERAL SECTION

No.	Part No.	Description
88	7-621-283-00	SCREW +P 2X5
89	7-623-510-01	LUG, 4
90	7-624-108-04	STOP RING 4.0, TYPE -E
91	7-627-552-18	SCREW, PRECISION +P 1.7X1.6
92	7-682-146-09	SCREW +P 3X5
93	7-685-105-19	SCREW +PTP 2X8 TYPE2 NON-SLIT
94	7-685-133-11	SCREW +P 2.6X6 TYPE1
95	7-685-534-24	SCREW, TOTSU PTPWH 2.6X8, TYPE2
96	7-685-646-11	SCREW +BVTP 3X8 TYPE2 N-S
97	A-3235-290-A	RAIL ASSY, POINTER
98	A-3246-055-A	LID ASSY, BATTERY CASE
99	A-3247-085-A	(US,Canadian,UK)...HOLDER ASSY, CASSETTE
100	X-3314-402-0	SHAFT SUB ASSY, FULCRUM
101	X-3314-403-0	CHASSIS SUB ASSY, TUNING
102	X-3314-428-0	EJECT ASSY, SOFT
103	X-3314-429-1	CABINET ASSY
104	7-685-106-19	SCREW PTP 2X10
105	A-3247-084-A	(E)...HOLDER ASSY, CASSETTE
105	A-3247-089-A	(AEP)...HOLDER ASSY, CASSETTE
106	3-314-567-00	SHAFT (B), LOCK
107	7-625-713-00	RIVER 2X8
108	9-911-825-32	STRING, TETRON, DIAL (0.3)
109	7-331-002-02	RUBBER, BUTYL (BLACK)

NOTE:

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- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA.... : μA...., UPA.... : μPA...., UPC.... : μPC,
UPD.... : μPD....

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
151	Δ.1-463-482-00	(AEP)...ADAPTOR, AC
151	Δ.1-463-488-00	(Canadian)...ADAPTOR, AC
151	Δ.1-463-483-00	(UK)...ADAPTOR, AC
151	Δ.1-463-468-00	(US)...ADAPTOR, AC
151	Δ.1-463-484-00	(E EURO PLUG)...ADAPTOR, AC
151	Δ.1-463-485-00	(E BLADE PLUG)...ADAPTOR, AC
152	Δ.1-526-565-00	(E BLADE PLUG)...ADAPTOR, AC PLUG
153	3-314-572-00	(AEP,E)...INDIVIDUAL CARTON
154	3-314-570-00	CUSHION (LEFT)
155	3-314-571-00	CUSHION (RIGHT)
156	3-315-604-00	CUSHION (FRONT)
157	3-315-605-00	SLEEV, ADAPTOR
158	3-575-954-00	BAG, PLASTIC, PROTECTION
159	3-773-398-11	(AEP,UK,E)...MANUAL, INSTRUCTION
160	3-773-398-21	(US,Canadian)...MANUAL, INSTRUCTION
161	3-793-828-11	QUESTIONNAIRE
162	8-893-536-00	(AEP,UK,E)...TAPE, DEMO (CD-819)

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MECHANISM SECTION

No.	Part No.	Description
301	3-305-810-00	SCREW, THRUST ADJUSTMENT
302	3-305-915-00	PLATE, LOCK, PAUSE
303	3-305-925-00	WASHER
304	3-305-926-00	WASHER, POLYETHYLENE(DIA. 1.7)
305	.....	
306	3-306-816-11	BELT (30.5X0.9)
307	3-306-826-00	SHAFT, LOCK PLATE
308	3-306-853-11	LEVER, FWD
309	3-306-854-00	LEVER, ERASING PROTECTION
310	3-306-859-00	SPRING
311	3-306-860-00	SPRING, TENSION
312	3-306-861-00	SPRING, TENSION
313	3-306-866-00	SPRING, TENSION
314	3-306-867-00	SPRING
315	3-306-872-00	SPRING, COMPRESSION
316	3-306-876-00	SPRING
317	3-306-881-00	SLIDER, SE
318	3-307-948-01	WASHER, NYLON
319	3-314-435-00	BUTTON, FF
320	3-314-436-00	BUTTON, PLAY
321	3-314-437-00	BUTTON, REW
322	3-314-438-00	BUTTON, STOP
323	3-314-439-00	BUTTON, PAUSE
324	3-314-440-00	BUTTON, REC
325	3-314-496-00	WASHER, POLYETHYLENE
326	3-314-497-00	GUIDE (A), WIRING
327	3-314-498-00	SPRING
328	3-314-499-00	PLATE, LOCK, CASSETTE HOLDER
329	3-314-500-00	LEVER (A), EJECT
330	3-314-501-00	BRACKET (B), LEAF
331	3-314-505-00	LEVER, SOP
332	3-314-507-00	LEVER, SHUT-OFF
333	3-314-508-00	SPRING
334	3-314-509-00	LEVER (B), EJECT
335	3-314-510-00	SPRING
336	3-314-511-00	LEVER, FF
337	3-314-512-00	LEVER, REW
338	3-314-513-00	SPRING
339	3-314-514-00	LEVER, PREVENTION, SHUT-OFF
340	3-314-515-00	BELT
341	3-314-516-00	LEVER (C), MOTOR
342	3-314-517-00	LEVER, ATS
343	3-314-518-00	SPRING
344	3-314-519-00	LEVER, RELEASE, PINCH
345	3-314-520-00	SPRING

MECHANISM SECTION

No.	Part No.	Description
346	3-314-521-00	GUIDE (B), WIRING
347	3-314-522-00	LEVER, CR
348	3-314-523-00	PLATE, LOCK
349	3-314-549-00	WASHER (E-2.3), NYLON
350	3-314-576-00	WASHER
351	3-527-190-00	SPRING, TENSION
352	3-314-584-00	PIN, AMS LOCK
353	3-527-189-00	SPRING, TENSION
354	3-547-664-00	SPRING, TENSION
355	3-556-269-00	BRACKET (B), M
356	3-570-894-00	SPRING, TENSION
357	3-557-805-00	CASE, SHIELD, M
358	3-557-813-00	RUBBER, VIBRATION PROOF
359	3-561-628-00	SPRING, TENSION
360	3-564-949-00	SPRING, TENSION
361	.....	
362	3-570-892-00	SPRING, TENSION
363	3-570-951-00	SPRING, TENSION
364	3-578-138-01	SEAM
365	3-578-138-11	SEAM
366	3-590-523-00	WASHER, STOPPER
367	3-701-437-21	WASHER
368	3-703-502-52	SCREW
369	3-824-163-00	SPRING (L)
370	3-831-441-XX	CUSHION
371	7-621-255-15	SCREW +P 2X3
372	3-703-502-32	SCREW
373	7-621-772-50	SCREW +B 2X10
374	7-621-772-00	SCREW +B 2X3
375	7-621-283-00	SCREW +P 2X5
376	7-624-101-04	STOP RING 1.2 (E TYPE)
377	7-624-102-04	STOP RING 1.5, TYPE -E
378	7-624-105-04	STOP RING 2.3, TYPE -E
379	7-627-551-58	SCREW, PRECISION +P 1.4X3
380	7-621-255-65	SCREW, +P 2X10
381	7-627-552-07	SCREW, PRECISION +P 1.7X2.5
382	7-627-552-48	SCREW, PRECISION +P 1.7X4
383	7-627-553-38	SCREW, PRECISION +P 2X3
384	7-627-850-18	SCREW, PRECISION +P 1.4X2.5
385	7-627-850-28	SCREW, PRECISION +P 1.4X3
386	7-627-850-78	PRECISION SCREW +P 1.4X1.8
387	7-685-102-11	SCREW +P 2X4 NON-SLIT TYPE 2
388	7-628-253-15	SCREW +PS 2X5

MECHANISM SECTION

No.	Part No.	Description
389	7-628-283-00	SCREW, +P 2X5
390	A-3109-022-A	BEARING ASSY
391	X-3306-807-0	IDLER ASSY, FWD
392	X-3305-808-0	BRACKET ASSY, MOTOR
393	X-3306-815-0	LEVER ASSY, REW IDLER
394	X-3314-406-0	FLYWHEEL BLOCK ASSY
395	X-3314-408-0	LEVER ASSY, T IDLER
396	X-3314-410-0	BRACKET ASSY, EJECT LEVER
397	X-3314-411-0	LEVER ASSY, FF IDLER
398	X-3314-412-0	BRACKET (C) ASSY, LEAF
399	X-3314-413-0	LEVER ASSY, AMS
400	X-3314-414-0	BRACKET ASSY, MOTOR SHAFT
401	X-3314-415-0	RETAINER ASSY, THRUST
402	X-3314-416-0	PINCH LEVER ASSY
403	X-3314-417-0	BEARING ASSY, REEL
404	X-3314-418-0	CHASSIS ASSY, HEAD
405	X-3314-420-0	BRACKET (A) ASSY, LEAF
406	X-3314-421-0	LEVER ASSY, REC
407	X-3314-422-0	LEVER ASSY, PAUSE
408	X-3314-424-0	CHASSIS ASSY
409	3-547-659-00	SPRING, TENSION
410	3-558-708-21	WASHER, STOPPER
411	3-578-242-11	WASHER
412	3-880-990-00	SCREW (1.7X3), FLAT, (+) SPECIAL

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-501-277-00	ANTENNA, TELESCOPIC
502	1-548-558-31	TIMER, TAPE
503	1-609-725-00	PC BOARD, RADIO
504	1-609-726-00	PC BOARD, MD
505	1-609-727-00	PC BOARD, SERVO
506	1-609-728-00	PC BOARD, AMS
507	1-609-730-00	PC BOARD, POWER AMP
508	1-609-731-00	PC BOARD, CONNECTOR
509	1-609-732-00	PC BOARD, CONTROL
510	1-609-733-00	PC BOARD, AUDIO
511	1-610-157-00	PC BOARD, OPR/BATT
512	1-610-158-00	PC BOARD, STEREO LED
513	1-610-159-00	PC BOARD, HEADPHONE
514	1-610-160-00	PC BOARD, REC MUTE
515	A-3214-054-A	PC BOARD ASSY, RADIO
516	A-3270-137-A	MOUNTED PCB, AUDIO
517	A-3270-138-A	MOUNTED PCB, AMPLIFIER, POWER
518	A-3273-056-A	MOUNTED PCB, CONTROL
C1	1-162-110-00	CERAMIC 0.001MF 10% 50V
C2	1-161-013-00	CERAMIC 0.01MF 10% 25V
C3	1-162-113-00	CERAMIC 0.01MF 30% 16V
C4	1-162-113-00	CERAMIC 0.01MF 30% 16V
C5	1-161-013-00	CERAMIC 0.01MF 10% 25V
C6	1-102-936-00	CERAMIC 3PF 0.25PF 50V
C7	1-102-960-00	(US,Canadian,UK)...CERAMIC 24PF 5% 50V
C7	1-162-022-00	(AEP,E).....CERAMIC 27PF 5% 50V
C8	1-162-013-00	CERAMIC 10PF 5% 50V
C9	1-102-642-00	(E).....CERAMIC 24PF 5% 50V
C9	1-102-806-00	(AEP,UK,US,Canadian)...CERAMIC 27PF 5% 50V
C10	1-123-610-00	ELECT 0.47MF 20% 50V
C11	1-162-025-00	CERAMIC 33PF 5% 50V
C12	1-161-013-00	CERAMIC 0.01MF 10% 25V
C13	1-123-617-00	ELECT 10MF 20% 16V
C14	1-123-616-00	ELECT 4.7MF 20% 25V
C15	1-123-617-00	ELECT 10MF 20% 16V
C16	1-123-617-00	ELECT 10MF 20% 16V
C17	1-123-617-00	ELECT 10MF 20% 16V
C18	1-123-611-00	ELECT 1MF 20% 50V
C19	1-102-947-00	CERAMIC 10PF 5% 50V
C20	1-102-935-00	CERAMIC 2PF 0.5PF 50V
C21	1-123-611-00	ELECT 1MF 20% 50V
C22	1-123-309-00	ELECT 330MF 20% 10V
C23	1-123-647-00	ELECT 47MF 20% 6.3V
C24	1-130-018-00	FILM 0.001MF 10% 50V

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CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
 UA....: μA..., UPA....: μPA..., UPC....: μPC,
 UPD....: μPD...

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In each case, U : μ, for example:
 UA....: μA..., UPA....: μPA..., UPC....: μPC,
 UPD....: μPD...

ELECTRICAL PARTS

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Ref.No.	Part No.	Description			
C25	1-161-007-00	CERAMIC	0.0033MF	10%	25V
C26	1-161-021-00	CERAMIC	0.047MF	10%	25V
C27	1-123-610-00	ELECT	0.47MF	20%	50V
C28	1-123-611-00	ELECT	1MF	20%	50V
C29	1-161-021-00	CERAMIC	0.047MF	10%	25V
C30	1-161-021-00	CERAMIC	0.047MF	10%	25V
C31	1-162-110-00	(US,Canadian)...CERAMIC	0.001MF	10%	50V
C32	1-123-610-00	ELECT	0.47MF	20%	50V
C33	1-123-610-00	ELECT	0.47MF	20%	50V
C34	1-123-610-00	ELECT	0.47MF	20%	50V
C35	1-161-017-00	CERAMIC	0.022MF	10%	25V
C36	1-161-013-00	CERAMIC	0.01MF	10%	25V
C37	1-161-013-00	CERAMIC	0.01MF	10%	25V
C38	1-102-106-00	CERAMIC	100PF	10%	50V
C39	1-123-611-00	ELECT	1MF	20%	50V
C40	1-162-013-00	CERAMIC	10PF	5%	50V
C41	1-161-001-00	(AEP)...CERAMIC	0.001MF	10%	25V
C101	1-123-616-00	ELECT	4.7MF	20%	25V
C102	1-102-117-85	CERAMIC	820PF	10%	50V
C103	1-123-647-00	ELECT	47MF	20%	6.3V
C104	1-130-489-00	MYLAR	0.033MF	5%	50V
C105	1-123-616-00	ELECT	4.7MF	20%	25V
C106	1-130-479-00	MYLAR	0.0047MF	5%	50V
C107	1-123-307-00	ELECT	100MF	20%	6.3V
C108	1-163-011-00	CERAMIC CHIP	0.0015MF	10%	50V
C109	1-123-611-00	ELECT	1MF	20%	50V
C110	1-131-344-00	TANTALUM	0.33MF	20%	35V
C111	1-131-341-00	TANTALUM	0.1MF	20%	35V
C112	1-130-484-00	MYLAR	0.012MF	5%	50V
C113	1-130-627-00	MYLAR	0.039MF	5%	50V
C114	1-123-617-00	ELECT	10MF	20%	16V
C115	1-130-629-00	MYLAR	0.056MF	5%	50V
C116	1-130-483-00	MYLAR	0.01MF	5%	50V
C117	1-130-485-00	MYLAR	0.015MF	5%	50V
C118	1-124-255-00	ELECT	1MF	20%	50V
C119	1-124-236-00	ELECT	47MF	20%	16V
C120	1-124-257-00	ELECT	2.2MF	20%	50V
C121	1-124-255-00	ELECT	1MF	20%	50V
C122	1-102-074-00	CERAMIC	0.001MF	10%	50V
C123	1-124-257-00	ELECT	2.2MF	20%	50V
C124	1-124-233-00	ELECT	10MF	20%	16V
C125	1-130-485-00	MYLAR	0.015MF	5%	50V
C126	1-130-482-00	MYLAR	0.0082MF	5%	50V
C127	1-102-106-00	CERAMIC	100PF	10%	50V
C128	1-163-009-00	CERAMIC CHIP	0.001MF	10%	50V

C129	1-130-472-00	MYLAR	0.0012MF	5%	50V
C130	1-130-627-00	MYLAR	0.039MF	5%	50V
C131	1-163-117-91	CERAMIC CHIP	100PF	5%	50V
C132	1-102-074-00	CERAMIC	0.001MF	10%	50V
C201	1-123-616-00	ELECT	4.7MF	20%	25V
C202	1-102-117-85	CERAMIC	820PF	10%	50V
C203	1-123-647-00	ELECT	47MF	20%	6.3V
C204	1-130-489-00	MYLAR	0.033MF	5%	50V
C205	1-123-616-00	ELECT	4.7MF	20%	25V
C206	1-130-479-00	MYLAR	0.0047MF	5%	50V
C207	1-123-307-00	ELECT	100MF	20%	6.3V
C208	1-163-011-00	CERAMIC CHIP	0.0015MF	10%	50V
C209	1-123-611-00	ELECT	1MF	20%	50V
C210	1-131-344-00	TANTALUM	0.33MF	20%	35V
C211	1-131-341-00	TANTALUM	0.1MF	20%	35V
C212	1-130-484-00	MYLAR	0.012MF	5%	50V
C213	1-130-627-00	MYLAR	0.039MF	5%	50V
C214	1-123-617-00	ELECT	10MF	20%	16V
C215	1-130-629-00	MYLAR	0.056MF	5%	50V
C216	1-130-483-00	MYLAR	0.01MF	5%	50V
C217	1-130-485-00	MYLAR	0.015MF	5%	50V
C218	1-124-255-00	ELECT	1MF	20%	50V
C219	1-124-236-00	ELECT	47MF	20%	16V
C220	1-124-257-00	ELECT	2.2MF	20%	50V
C221	1-123-611-71	ELECT	1MF	20%	50V
C222	1-102-074-00	CERAMIC	0.001MF	10%	50V
C223	1-124-257-00	ELECT	2.2MF	20%	50V
C224	1-123-617-71	ELECT	10MF	20%	16V
C225	1-130-485-00	MYLAR	0.015MF	5%	50V
C226	1-130-482-00	MYLAR	0.0082MF	5%	50V
C227	1-102-106-00	CERAMIC	100PF	10%	50V
C228	1-163-009-00	CERAMIC CHIP	0.001MF	10%	50V
C229	1-130-472-00	MYLAR	0.0012MF	5%	50V
C230	1-130-627-00	MYLAR	0.039MF	5%	50V
C231	1-163-117-91	CERAMIC CHIP	100PF	5%	50V
C232	1-102-074-00	CERAMIC	0.001MF	10%	50V
C301	1-129-709-00	FILM	0.0039MF	10%	630V
C302	1-106-180-00	MYLAR	0.0022MF	5%	100V
C303	1-106-186-00	MYLAR	0.0039MF	5%	100V
C304	1-163-059-91	CERAMIC CHIP	0.01MF	10%	50V
C305	1-123-645-71	ELECT	33MF	20%	10V
C306	1-131-373-00	TANTALUM	22MF	20%	16V
C307	1-131-373-00	TANTALUM	22MF	20%	16V
C308	1-131-373-00	TANTALUM	22MF	20%	16V
C309	1-163-031-00	CERAMIC CHIP	0.01MF	10%	50V

C310	1-131-373-00	TANTALUM	22MF	20%	16V
C311	1-123-356-00	ELECT	10MF	20%	16V
C312	1-161-051-00	CERAMIC	0.01MF	10%	50V
C313	1-124-233-00	ELECT	10MF	20%	16V
C314	1-123-320-00	ELECT	100MF	20%	16V
C315	1-124-236-00	ELECT	47MF	20%	16V
C316	1-124-235-11	ELECT	33MF	20%	16V
C317	1-124-168-00	ELECT	100MF	20%	16V
C318	1-123-645-71	ELECT	33MF	20%	10V
C319	1-123-617-71	ELECT	10MF	20%	16V
C320	1-163-009-00	CERAMIC CHIP	0.001MF	10%	50V
C322	1-130-476-00	MYLAR	0.0027MF	5%	50V
C325	1-123-616-00	ELECT	4.7MF	20%	25V
C326	1-131-344-00	(AEP)...TANTALUM	0.33MF	20%	35V
C327	1-131-344-00	(AEP)...TANTALUM	0.33MF	20%	35V
C329	1-163-063-91	CERAMIC CHIP	0.022MF	10%	50V
C401	1-124-257-00	ELECT	2.2MF	20%	50V
C402	1-124-257-00	ELECT	2.2MF	20%	50V
C403	1-102-106-00	CERAMIC	100PF	10%	50V
C404	1-102-106-00	CERAMIC	100PF	10%	50V
C405	1-102-074-85	CERAMIC	0.001MF	10%	50V
C406	1-102-074-85	CERAMIC	0.001MF	10%	50V
C407	1-124-255-00	ELECT	1MF	20%	50V
C408	1-124-255-00	ELECT	1MF	20%	50V
C409	1-163-064-00	CERAMIC CHIP	0.027MF	10%	50V
C410	1-163-064-00	CERAMIC CHIP	0.027MF	10%	50V
C411	1-163-054-91	CERAMIC CHIP	0.0039MF	10%	50V
C412	1-163-054-91	CERAMIC CHIP	0.0039MF	10%	50V
C413	1-163-064-00	CERAMIC CHIP	0.027MF	10%	50V
C414	1-163-064-00	CERAMIC CHIP	0.027MF	10%	50V
C415	1-163-077-91	CERAMIC CHIP	0.1MF	10%	50V
C416	1-163-077-91	CERAMIC CHIP	0.1MF	10%	50V
C417	1-163-050-00	CERAMIC CHIP	0.0018MF	10%	50V
C418	1-161-007-00	CERAMIC	0.0033MF	10%	25V
C419	1-124-250-00	ELECT	0.15MF	20%	50V
C420	1-124-250-00	ELECT	0.15MF	20%	50V
C421	1-102-115-00	(AEP)...CERAMIC	560PF	10%	50V
C422	1-161-001-00	(AEP)...CERAMIC	0.001MF	10%	25V
C423	1-102-115-00	(AEP)...CERAMIC	560PF	10%	50V
C424	1-161-001-00	(AEP)...CERAMIC	0.001MF	10%	25V
C425	1-161-013-00	CERAMIC	0.01MF	10%	25V
C501	1-123-356-00	ELECT	10MF	20%	16V
C502	1-123-356-00	ELECT	10MF	20%	16V
C503	1-161-007-00	CERAMIC	0.0033MF	10%	25V
C504	1-161-007-00	CERAMIC	0.0033MF	10%	25V

C505	1-123-307-00	ELECT	100MF	20%	10V
C506	1-123-307-00	ELECT	100MF	20%	10V
C507	1-123-306-00	ELECT	47MF	20%	10V
C508	1-123-306-00	ELECT	47MF	20%	10V
C509	1-123-307-00	ELECT	100MF	20%	10V
C510	1-123-307-00	ELECT	100MF	20%	10V
C511	1-130-497-00	MYLAR	0.15MF	10%	50V
C512	1-130-497-00	MYLAR	0.15MF	10%	50V
C513	1-123-312-00	ELECT	2200MF	20%	10V
C514	1-131-373-00	TANTALUM	22MF	20%	16V
C515	1-123-317-00	ELECT	22MF	20%	16V
C516	1-123-317-00	ELECT	22MF	20%	16V
C517	1-123-300-00	ELECT	2200MF	20%	6.3V
C518	1-123-300-00	ELECT	2200MF	20%	6.3V
C519	1-123-306-00	ELECT	47MF	20%	10V
C520	1-123-306-00	ELECT	47MF	20%	10V
C521	1-131-344-00	TANTALUM	0.33MF	20%	35V
C522	1-161-772-00	CERAMIC	0.1MF	10%	25V
C601	1-123-661-00	ELECT	100MF	20%	6.3V
C602	1-162-111-00	CERAMIC	0.0022MF	30%	25V
C603	1-161-013-00	CERAMIC	0.01MF	10%	25V
C604	1-161-021-00	CERAMIC	0.047MF	10%	25V
C605	1-131-342-00	TANTALUM	0.15MF	20%	35V
C606	1-130-483-00	MYLAR	0.01MF	5%	50V
C607	1-130-481-00	MYLAR	0.0068MF	5%	50V
C608	1-123-646-00	ELECT	33MF	20%	6.3V
C609	1-130-479-00	MYLAR	0.0047MF	5%	50V
C610	1-123-647-00	ELECT	47MF	20%	6.3V
C611	1-123-308-00	ELECT	220MF	20%	10V
C612	1-161-013-00	CERAMIC	0.01MF	10%	25V
C613	1-162-110-00	(US,Canadian,AEP,E)...CERAMIC	0.001MF	10%	50V
C613	1-162-111-00	(UK)...CERAMIC	0.0022MF	30%	25V
C614	1-162-111-00	(UK)...CERAMIC	0.0022MF	30%	25V
C701	1-123-607-00	ELECT	0.1MF	20%	50V
C702	1-161-021-00	CERAMIC	0.047MF	10%	25V
C703	1-123-617-00	ELECT	10MF	20%	16V
C704	1-161-015-00	CERAMIC	0.015MF	10%	25V
C705	1-124-233-00	ELECT	10MF	20%	16V
C706	1-124-234-00	ELECT	22MF	20%	16V
C801	1-123-307-00	ELECT	100MF	20%	6.3V
C802	1-131-347-00	TANTALUM	1MF	20%	35V
C803	1-123-645-00	ELECT	33MF	20%	10V
C804	1-162-110-00	CERAMIC	0.001MF	10%	50V
C805	1-102-074-00	CERAMIC	0.001MF	10%	50V
C806	1-102-074-00	CERAMIC	0.001MF	10%	50V

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CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

NOTE:

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CF1	1-527-864-00	(UK)...FILTER, CERAMIC
CF1	1-527-865-00	(US,Canadian,AEP,E)...FILTER, CERAMIC
CF2	1-527-795-71	FILTER, CERAMIC
CF3	1-527-795-71	FILTER, CERAMIC
CF4	1-567-050-00	FILTER, CERAMIC
●CNU302;1-562-334-00		SOCKET, CONNECTOR 10P
●CNP304;1-560-552-00		PIN, CONNECTOR 5P
CP1	1-235-053-00	(US,Canadian,UK)...FILTER, BANDPASS
CP1	1-231-892-00	(AEP,E).....FILTER, BANDPASS
CP2	1-231-984-00	FILTER, LOW PASS
CP3	1-231-984-00	FILTER, LOW PASS
CP301	1-464-268-00	CONVERTER UNIT, DC-DC
CT1	1-151-424-00	(US,Canadian,UK) ...CAP, TUNING, POLYETHYLENE
CT1	1-151-425-00	(AEP,E)...CAP, TUNING, POLYETHYLENE
CT2	1-151-424-00	(US,Canadian,UK) ...CAP, TUNING, POLYETHYLENE
CT2	1-151-425-00	(AEP,E)...CAP, TUNING, POLYETHYLENE
CT3	1-151-424-00	(US,Canadian,UK) ...CAP, TUNING, POLYETHYLENE
CT3	1-151-425-00	(AEP,E)...CAP, TUNING, POLYETHYLENE
CT4	1-151-424-00	(US,Canadian,UK) ...CAP, TUNING, POLYETHYLENE
CT4	1-151-425-00	(AEP,E)...CAP, TUNING, POLYETHYLENE
D1	8-719-815-55	DIODE 1S1555
D2	8-719-815-55	DIODE 1S1555
D3	8-719-422-21	DIODE 1T22AM
D4	8-719-815-55	DIODE 1S1555
D5	8-719-815-55	DIODE 1S1555
D6	8-719-981-01	DIODE ERA81-004
D7	8-719-815-55	DIODE 1S1555
D101	8-719-815-55	DIODE 1S1555
D201	8-719-815-55	DIODE 1S1555
D301	8-719-815-55	DIODE 1S1555
D302	8-719-815-55	DIODE 1S1555
D303	8-719-815-55	DIODE 1S1555
D304	8-719-815-55	DIODE 1S1555
D305	8-719-815-55	DIODE 1S1555
D306	8-719-100-05	DIODE 1S2837
D307	8-719-815-55	DIODE 1S1555
D308	8-719-911-06	DIODE 1S106
D309	8-719-815-55	DIODE 1S1555

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 UA.... : μA..., UPA.... : μPA..., UPC.... : μPC,
 UPD.... : μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D501	8-719-100-42	DIODE RD6.8EB3
D801	8-719-815-55	DIODE 1S1555
D802	8-719-815-55	DIODE 1S1555
D803	8-719-815-55	DIODE 1S1555
D804	8-719-815-55	DIODE 1S1555
D901	8-719-812-41	DIODE TLR124
D902	8-719-812-43	DIODE TLG124A
D903	8-719-901-44	DIODE SLP144B
HE901	8-825-724-60	HEAD, ERASE (EF-201-36F)
HRP901	8-825-507-20	HEAD (PP227-3602)
IC1	8-752-007-50	IC CX20075
IC2	8-759-833-61	IC LA3361
IC101	8-759-300-76	IC CX-174A-2
IC201	8-759-300-76	IC CX-174A-2
IC301	8-759-800-66	IC LA3161
IC501	8-759-800-16	IC LA4180P
IC601	1-464-175-00	CIRCUIT UNIT, SERVO
IC701	8-759-201-46	IC TA7341P
IC801	8-759-800-53	IC LA5004
J301	1-507-787-11	JACK, HEADPHONES
J401	1-507-794-21	JACK, SMALL TYPE, CD/LINE IN
J402	1-507-838-21	JACK, MIC (STEREO)
J403	1-507-626-00	JACK, POWER OUTSIDE, DC IN 9V
J404	1-507-787-21	JACK, LINE OUT
L1	1-459-299-00	COIL, WITH CORE
L2	1-402-019-00	ANTENNA, FERRITE-ROD (MW)
L3	1-408-562-00	MICRO INDUCTOR 8.2UH
L4	1-408-579-00	MICRO INDUCTOR 220UH
L5	1-459-481-00	COIL (WITH CORE)
L6	1-408-930-00	MICRO INDUCTOR 33MMH
L7	1-408-930-00	MICRO INDUCTOR 33MMH
L8	●;1-420-948-00	COIL, FM RF
L9	1-408-579-00	(US,Canadian)...MICRO INDUCTOR 220UH
L101	1-408-682-00	MICRO INDUCTOR 10MMH
L201	1-408-682-00	MICRO INDUCTOR 10MMH
L301	1-408-579-00	MICRO INDUCTOR 220UH
L302	1-408-104-00	MICRO INDUCTOR 1MMH
L303	1-408-117-00	MICRO INDUCTOR 10UH
L501	1-407-484-00	MICRO INDUCTOR 3.3UH
L502	1-407-484-00	MICRO INDUCTOR 3.3UH
L601	1-408-068-00	MICRO INDUCTOR 33UH
L602	1-408-117-00	MICRO INDUCTOR 10UH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
PH801	8-719-751-42	DIODE NJL5141E-AB
PM901	1-454-326-00	SOLENOID, PLUNGER, FF/REW
PM902	1-454-356-00	SOLENOID, PLUNGER, FWD
Q1	8-729-119-32	TRANSISTOR 2SK193
Q2	8-729-119-32	TRANSISTOR 2SK193
Q3	8-729-245-83	TRANSISTOR 2SC2458
Q4	8-729-245-83	TRANSISTOR 2SC2458
Q5	8-729-102-03	TRANSISTOR 2SD1020
Q6	8-729-245-83	TRANSISTOR 2SC2458
Q7	8-729-204-82	(AEP,UK,E)...TRANSISTOR 2SA1048
Q8	8-729-204-82	TRANSISTOR 2SA1048
Q9	8-729-102-03	TRANSISTOR 2SD1020
Q101	8-729-245-83	TRANSISTOR 2SC2458
Q102	8-729-159-64	TRANSISTOR 2SD596
Q103	8-729-100-66	TRANSISTOR 2SC1623
Q104	8-729-100-66	TRANSISTOR 2SC1623
Q105	8-729-159-64	TRANSISTOR 2SD596
Q106	8-729-100-66	TRANSISTOR 2SC1623
Q201	8-729-245-83	TRANSISTOR 2SC2458
Q202	8-729-159-64	TRANSISTOR 2SD596
Q203	8-729-100-66	TRANSISTOR 2SC1623
Q204	8-729-100-66	TRANSISTOR 2SC1623
Q205	8-729-159-64	TRANSISTOR 2SD596
Q206	8-729-100-66	TRANSISTOR 2SC1623
Q301	8-729-100-13	TRANSISTOR 2SC2001
Q302	8-729-159-64	TRANSISTOR 2SD596
Q303	8-729-159-64	TRANSISTOR 2SD596
Q304	8-729-177-23	TRANSISTOR 2SB772
Q305	8-729-245-83	TRANSISTOR 2SC2458
Q306	8-729-245-83	TRANSISTOR 2SC2458
Q307	8-729-245-83	TRANSISTOR 2SC1623
Q308	8-729-245-83	TRANSISTOR 2SC2458
Q309	8-729-216-22	TRANSISTOR 2SA1162G
Q310	8-729-100-66	TRANSISTOR 2SC1623
Q311	8-729-100-66	TRANSISTOR 2SC1623
Q312	8-729-245-83	TRANSISTOR 2SC2458
Q314	8-729-100-66	TRANSISTOR 2SC1623
Q315	8-729-629-12	TRANSISTOR 2SC2291
Q316	8-729-100-66	TRANSISTOR 2SC1623
Q318	8-729-100-66	TRANSISTOR 2SC1623
Q319	8-729-216-22	TRANSISTOR 2SA1162
Q401	8-729-245-83	TRANSISTOR 2SC2458
Q402	8-729-245-83	TRANSISTOR 2SC2458
Q501	8-729-800-83	TRANSISTOR 2SB808
Q502	8-729-800-83	TRANSISTOR 2SB808

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Ref.No.	Part No.	Description
Q503	8-729-204-82	TRANSISTOR 2SA1048
Q504	8-729-245-83	TRANSISTOR 2SC2458
Q505	8-729-245-83	TRANSISTOR 2SC2458
Q506	8-729-245-83	TRANSISTOR 2SC2458
Q507	8-729-245-83	TRANSISTOR 2SC2458
Q508	8-729-245-83	TRANSISTOR 2SC2458
Q509	8-729-204-82	TRANSISTOR 2SA1048
Q510	8-729-204-82	TRANSISTOR 2SA1048
Q511	8-729-113-32	TRANSISTOR 2SB733
Q512	8-729-113-32	TRANSISTOR 2SB733
Q513	8-729-177-32	TRANSISTOR 2SD773
Q514	8-729-177-32	TRANSISTOR 2SD773
Q515	8-729-245-83	TRANSISTOR 2SC2458
Q601	8-729-245-83	TRANSISTOR 2SC2458
Q602	8-729-245-83	TRANSISTOR 2SC2458
Q603	8-729-373-92	TRANSISTOR 2SB739
Q701	8-729-245-83	TRANSISTOR 2SC2458
Q702	8-729-245-83	TRANSISTOR 2SC2458
Q801	8-729-245-83	TRANSISTOR 2SC2458
Q802	8-729-801-22	TRANSISTOR 2SD1012
Q803	8-760-335-10	TRANSISTOR 2SC1474
Q804	8-729-245-83	TRANSISTOR 2SC2458
Q805	8-729-801-22	TRANSISTOR 2SD1012
Q806	8-729-245-83	TRANSISTOR 2SC2458
Q807	8-729-101-31	TRANSISTOR N13T1
R1	1-247-823-00	CARBON 470 5% 1/6W
R2	1-247-855-00	CARBON 10K 5% 1/6W
R3	1-247-821-00	CARBON 30 5% 1/6W
R4	1-247-831-00	CARBON 1K 5% 1/6W
R5	1-247-855-00	CARBON 10K 5% 1/6W
R6	1-247-807-00	CARBON 100 5% 1/6W
R7	1-247-807-00	CARBON 100 5% 1/6W
R8	1-247-855-00	CARBON 10K 5% 1/6W
R9	1-247-795-00	CARBON 33 5% 1/6W
R10	1-247-871-00	CARBON 47K 5% 1/6W
R11	1-247-857-00	CARBON 12K 5% 1/6W
R12	1-247-817-00	CARBON 270 5% 1/6W
R13	1-247-831-00	CARBON 1K 5% 1/6W
R14	1-247-855-00	CARBON 10K 5% 1/6W
R15	1-247-843-00	CARBON 3.3K 5% 1/6W
R16	1-247-879-00	CARBON 100K 5% 1/6W
R17	1-247-831-00	CARBON 1K 5% 1/6W
R18	1-247-871-00	CARBON 47K 5% 1/6W
R19	1-247-823-00	CARBON 470 5% 1/6W
R20	1-247-851-00	CARBON 6.8K 5% 1/6W
R21	1-247-821-00	CARBON 390 5% 1/6W

CAPACITORS:

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SEMICONDUCTORS

In each case, U : μ, for example:
 UA.... : μA..., UPA.... : μPA..., UPC.... : μPC,
 UPD.... : μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R22	1-247-835-00	CARBON	1.5K	5%	1/6W
R23	1-247-835-00	CARBON	1.5K	5%	1/6W
R24	1-247-831-00	CARBON	1K	5%	1/6W
R25	1-247-831-00	(AEP,UK,E)....CARBON	1K	5%	1/6W
R26	1-247-855-00	(AEP,UK,E)....CARBON	10K	5%	1/6W
R27	1-247-821-00	CARBON	390	5%	1/6W
R28	1-247-879-00	CARBON	100K	5%	1/6W
R29	1-247-831-00	CARBON	1K	5%	1/6W
R30	1-247-835-00	CARBON	1.5K	5%	1/6W
R31	1-247-819-00	CARBON	330	5%	1/6W
R32	1-247-843-00	CARBON	3.3K	5%	1/6W
R102	1-247-810-00	CARBON	130	5%	1/6W
R103	1-247-846-00	CARBON	4.3K	5%	1/6W
R104	1-247-879-00	CARBON	100K	5%	1/6W
R106	1-247-857-00	CARBON	12K	5%	1/6W
R107	1-247-861-00	CARBON	18K	5%	1/6W
R108	1-247-895-00	CARBON	470K	5%	1/6W
R109	1-247-848-61	CARBON	5.1K	5%	1/6W
R110	1-247-855-00	CARBON	10K	5%	1/6W
R111	1-247-879-61	CARBON	100K	5%	1/6W
R112	1-247-849-00	CARBON	5.6K	5%	1/6W
R113	1-216-043-00	METAL CHIP	560	5%	1/10W
R114	1-247-888-00	CARBON	240K	5%	1/6W
R115	1-247-888-00	CARBON	240K	5%	1/6W
R116	1-247-857-00	CARBON	12K	5%	1/6W
R117	1-247-850-00	CARBON	6.2K	5%	1/6W
R118	1-247-863-00	CARBON	22K	5%	1/6W
R119	1-247-877-61	CARBON	82K	5%	1/6W
R120	1-247-891-00	CARBON	330K	5%	1/6W
R121	1-247-807-00	CARBON	100	5%	1/6W
R122	1-216-035-00	METAL CHIP	270	5%	1/10W
R123	1-216-089-00	METAL CHIP	47K	5%	1/10W
R124	1-216-222-91	METAL CHIP	10K	5%	1/8W
R125	1-216-246-91	METAL CHIP	100K	5%	1/8W
R126	1-216-246-91	METAL CHIP	100K	5%	1/8W
R127	1-247-884-00	CARBON	160K	5%	1/6W
R128	1-247-855-00	CARBON	10K	5%	1/6W
R129	1-216-160-00	METAL CHIP	27	5%	1/8W
R130	1-216-208-00	METAL CHIP	2.7K	5%	1/8W
R131	1-216-221-91	METAL CHIP	9.1K	5%	1/8W
R132	1-216-222-91	METAL CHIP	10K	5%	1/8W
R133	1-216-222-91	METAL CHIP	10K	5%	1/8W
R134	1-216-049-00	METAL CHIP	1K	5%	1/10W
R135	1-216-217-91	METAL CHIP	6.2K	5%	1/8W
R136	1-216-222-91	METAL CHIP	10K	5%	1/8W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R137	1-216-089-00	METAL CHIP	47K	5%	1/10W
R138	1-216-180-00	METAL CHIP	180	5%	1/8W
R139	1-216-216-91	METAL CHIP	5.6K	5%	1/8W
R140	1-216-222-91	METAL CHIP	10K	5%	1/8W
R202	1-247-810-00	CARBON	130	5%	1/6W
R203	1-247-846-00	CARBON	4.3K	5%	1/6W
R204	1-247-879-00	CARBON	100K	5%	1/6W
R206	1-247-857-00	CARBON	12K	5%	1/6W
R207	1-247-861-00	CARBON	18K	5%	1/6W
R208	1-247-895-00	CARBON	470K	5%	1/6W
R209	1-247-848-00	CARBON	5.1K	5%	1/6W
R210	1-247-855-00	CARBON	10K	5%	1/6W
R211	1-247-879-61	CARBON	100K	5%	1/6W
R212	1-247-849-00	CARBON	5.6K	5%	1/6W
R213	1-216-043-00	METAL CHIP	560	5%	1/10W
R214	1-247-888-61	CARBON	240K	5%	1/6W
R215	1-247-888-00	CARBON	240K	5%	1/6W
R216	1-247-857-00	CARBON	12K	5%	1/6W
R217	1-247-850-00	CARBON	6.2K	5%	1/6W
R218	1-247-863-00	CARBON	22K	5%	1/6W
R219	1-247-877-00	CARBON	82K	5%	1/6W
R220	1-247-891-00	CARBON	330K	5%	1/6W
R221	1-247-807-00	CARBON	100	5%	1/6W
R222	1-216-035-00	METAL CHIP	270	5%	1/10W
R223	1-216-089-00	METAL CHIP	47K	5%	1/10W
R224	1-216-222-91	METAL CHIP	10K	5%	1/8W
R225	1-216-246-91	METAL CHIP	100K	5%	1/8W
R226	1-216-246-91	METAL CHIP	100K	5%	1/8W
R227	1-216-251-00	METAL CHIP	160K	5%	1/8W
R228	1-216-222-91	METAL CHIP	10K	5%	1/8W
R229	1-216-011-00	METAL CHIP	27	5%	1/10W
R230	1-247-841-61	CARBON	2.7K	5%	1/6W
R231	1-247-854-00	CARBON	9.1K	5%	1/6W
R232	1-247-855-00	CARBON	10K	5%	1/6W
R233	1-216-222-91	METAL CHIP	10K	5%	1/8W
R234	1-216-049-00	METAL CHIP	1K	5%	1/10W
R235	1-247-850-00	CARBON	6.2K	5%	1/6W
R236	1-216-222-91	METAL CHIP	10K	5%	1/8W
R237	1-216-089-00	METAL CHIP	47K	5%	1/10W
R238	1-247-813-00	CARBON	180	5%	1/6W
R239	1-216-216-91	METAL CHIP	5.6K	5%	1/8W
R240	1-216-222-91	METAL CHIP	10K	5%	1/8W
R301	1-216-226-91	METAL CHIP	15K	5%	1/8W
R302	1-216-170-91	METAL CHIP	68	5%	1/8W
R303	1-216-154-00	METAL CHIP	15	5%	1/8W

NOTE:

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- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.

- F: nonflammable

COILS

- MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example:

UA....: μA...., UPA....: μPA...., UPC....: μPC,

UPD....: μPD....

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R304	1-216-178-00	METAL CHIP	150	5%	1/8W
R305	1-216-183-91	METAL CHIP	240	5%	1/8W
R306	1-216-214-91	METAL CHIP	4.7K	5%	1/8W
R307	1-216-214-91	METAL CHIP	4.7K	5%	1/8W
R308	1-247-826-00	CARBON	620	5%	1/6W
R309	1-247-849-61	CARBON	5.6K	5%	1/6W
R310	1-247-855-00	CARBON	10K	5%	1/6W
R311	1-247-807-61	CARBON	100	5%	1/6W
R312	1-247-863-00	CARBON	22K	5%	1/6W
R313	1-247-867-00	CARBON	33K	5%	1/6W
R314	1-247-855-00	CARBON	10K	5%	1/6W
R315	1-247-849-00	CARBON	5.6K	5%	1/6W
R316	1-247-827-00	CARBON	680	5%	1/6W
R317	1-216-222-91	METAL CHIP	10K	5%	1/8W
R318	1-216-075-00	METAL CHIP	12K	5%	1/10W
R320	1-247-831-61	CARBON	1K	5%	1/6W
R321	1-216-228-91	METAL CHIP	18K	5%	1/8W
R322	1-216-250-91	METAL CHIP	150K	5%	1/8W
R323	1-216-246-91	METAL CHIP	100K	5%	1/8W
R324	1-216-238-91	METAL CHIP	47K	5%	1/8W
R325	1-216-230-91	METAL CHIP	22K	5%	1/8W
R326	1-216-230-91	METAL CHIP	22K	5%	1/8W
R327	1-216-226-91	METAL CHIP	15K	5%	1/8W
R330	1-247-831-00	CARBON	1K	5%	1/6W
R331	1-216-222-91	METAL CHIP	10K	5%	1/8W
R332	1-216-222-91	METAL CHIP	10K	5%	1/8W
R333	1-216-222-91	METAL CHIP	10K	5%	1/8W
R334	1-247-855-00	CARBON	10K	5%	1/6W
R335	1-216-238-91	METAL CHIP	47K	5%	1/8W
R336	1-216-222-91	METAL CHIP	10K	5%	1/8W
R339	1-247-850-00	CARBON	6.2K	5%	1/6W
R340	1-216-109-00	METAL CHIP	330K	5%	1/10W
R341	1-216-085-00	METAL CHIP	33K	5%	1/10W
R342	1-247-855-00	CARBON	10K	5%	1/6W
R343	1-247-855-00	CARBON	10K	5%	1/6W
R345	1-216-170-91	METAL CHIP	68	5%	1/8W
R346	1-202-850-00	(UK)....CARBON	2.2		1/4W F
R347	1-202-850-00	(UK)....CARBON	2.2		1/4W F
R401	1-216-095-00	METAL CHIP	82K	5%	1/10W
R402	1-216-095-00	METAL CHIP	82K	5%	1/10W
R403	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R404	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R405	1-247-897-00	CARBON	560K	5%	1/6W
R406	1-247-850-00	CARBON	6.2K	5%	1/6W
R407	1-247-822-00	CARBON	430	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R408	1-247-850-00	CARBON	6.2K	5%	1/6W
R409	1-247-897-00	CARBON	560K	5%	1/6W
R410	1-247-822-00	CARBON	430	5%	1/6W
R411	1-247-879-00	CARBON	100K	5%	1/6W
R412	1-247-879-00	CARBON	100K	5%	1/6W
R413	1-216-220-91	METAL CHIP	8.2K	5%	1/8W
R414	1-216-220-91	METAL CHIP	8.2K	5%	1/8W
R415	1-216-208-00	METAL CHIP	2.7K	5%	1/8W
R416	1-216-208-00	METAL CHIP	2.7K	5%	1/8W
R417	1-216-206-91	METAL CHIP	2.2K	5%	1/8W
R418	1-216-206-91	METAL CHIP	2.2K	5%	1/8W
R419	1-247-857-00	CARBON	12K	5%	1/6W
R420	1-247-857-00	CARBON	12K	5%	1/6W
R421	1-247-833-00	CARBON	1.2K	5%	1/6W
R422	1-247-833-00	CARBON	1.2K	5%	1/6W
R423	1-247-843-00	CARBON	3.3K	5%	1/6W
R424	1-247-843-00	CARBON	3.3K	5%	1/6W
R501	1-247-839-00	CARBON	2.2K	5%	1/6W
R502	1-247-839-00	CARBON	2.2K	5%	1/6W
R503	1-247-871-00	CARBON	47K	5%	1/6W
R504	1-247-871-00	CARBON	47K	5%	1/6W
R505	1-247-795-00	CARBON	33	5%	1/6W
R506	1-247-795-00	CARBON	33	5%	1/6W
R507	1-247-806-00	CARBON	91	5%	1/6W
R508	1-247-806-00	CARBON	91	5%	1/6W
R509	1-247-835-00	CARBON	1.5K	5%	1/6W
R510	1-247-767-00	CARBON	2.2	5%	1/6W
R511	1-247-767-00	CARBON	2.2	5%	1/6W
R512	1-247-863-00	CARBON	22K	5%	1/6W
R513	1-247-855-00	CARBON	10K	5%	1/6W
R514	1-247-857-00	CARBON	12K	5%	1/6W
R515	1-247-825-00	CARBON	560	5%	1/6W
R516	1-247-807-00	CARBON	100	5%	1/6W
R517	1-247-863-00	CARBON	22K	5%	1/6W
R518	1-247-855-00	CARBON	10K	5%	1/6W
R519	1-247-855-00	CARBON	10K	5%	1/6W
R520	1-247-855-00	CARBON	10K	5%	1/6W
R521	1-247-863-00	CARBON	22K	5%	1/6W
R522	1-247-807-00	CARBON	100	5%	1/6W
R523	1-247-807-00	CARBON	100	5%	1/6W
R524	1-247-807-00	CARBON	100	5%	1/6W
R525	1-247-807-00	CARBON	100	5%	1/6W
R526	1-247-799-00	CARBON	47	5%	1/6W
R527	1-247-799-00	CARBON	47	5%	1/6W
R528	1-247-807-00	CARBON	100	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R529	1-247-807-00	CARBON	100	5%	1/6W
R530	1-202-459-00	SOLID	1.5M	5%	1/4W
R531	1-202-459-00	SOLID	1.5M	5%	1/4W
R532	1-247-797-00	CARBON	39	5%	1/6W
R533	1-247-797-00	CARBON	39	5%	1/6W
R534	1-247-851-00	CARBON	6.8K	5%	1/6W
R535	1-247-855-00	CARBON	10K	5%	1/6W
R536	1-247-855-00	CARBON	10K	5%	1/6W
R601	1-247-895-00	CARBON	470K	5%	1/6W
R602	1-247-863-00	CARBON	22K	5%	1/6W
R603	1-247-819-00	CARBON	330	5%	1/6W
R604	1-247-871-00	CARBON	47K	5%	1/6W
R605	1-247-831-00	CARBON	1K	5%	1/6W
R606	1-247-807-00	CARBON	100	5%	1/6W
R607	1-247-828-00	CARBON	750	5%	1/6W
R608	1-247-807-00	CARBON	100	5%	1/6W
R609	1-247-807-00	CARBON	100	5%	1/6W
R610	1-247-871-00	CARBON	47K	5%	1/6W
R611	1-247-896-00	CARBON	510K	5%	1/6W
R612	1-247-882-00	CARBON	130K	5%	1/6W
R613	1-213-048-00	FUSIBLE	3.3	5%	1W F
R701	1-247-879-00	CARBON	100K	5%	1/6W
R702	1-247-855-00	CARBON	10K	5%	1/6W
R703	1-247-855-00	CARBON	10K	5%	1/6W
R704	1-247-879-00	CARBON	100K	5%	1/6W
R705	1-247-864-00	CARBON	24K	5%	1/6W
R706	1-247-855-00	CARBON	10K	5%	1/6W
R707	1-247-848-00	CARBON	5.1K	5%	1/6W
R708	1-247-855-00	CARBON	10K	5%	1/6W
R709	1-247-891-00	CARBON	330K	5%	1/6W
R710	1-247-855-00	CARBON	10K	5%	1/6W
R711	1-247-831-00	CARBON	1K	5%	1/6W
R712	1-247-871-00	CARBON	47K	5%	1/6W
R801	1-247-894-00	CARBON	430K	5%	1/6W
R802	1-247-847-00	CARBON	4.7K	5%	1/6W
R803	1-247-818-00	CARBON	300	5%	1/6W
R804	1-247-856-00	CARBON	11K	5%	1/6W
R805	1-247-847-00	CARBON	4.7K	5%	1/6W
R806	1-247-879-00	CARBON	100K	5%	1/6W
R807	1-247-879-00	CARBON	100K	5%	1/6W
R808	1-247-813-00	CARBON	180	5%	1/6W
R809	1-247-843-00	CARBON	3.3K	5%	1/6W
R810	1-247-843-00	CARBON	3.3K	5%	1/6W
R811	1-247-879-00	CARBON	100K	5%	1/6W
R812	1-247-852-00	CARBON	7.5K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R813	1-247-859-00	CARBON	15K	5%	1/6W
R814	1-247-767-00	CARBON	2.2	5%	1/6W
R815	1-247-895-00	CARBON	470K	5%	1/6W
RV1	1-226-236-00	RES, ADJ, CARBON 10K			
RV101	1-226-710-00	RES, ADJ, SOLID 10K			
RV102	1-226-753-00	RES, ADJ, SOLID 47K			
RV201	1-226-710-00	RES, ADJ, SOLID 10K			
RV202	1-226-753-00	RES, ADJ, SOLID 47K			
RV401	1-230-011-00	RES, VAR, SLIDE 100K/100K			
RV402	1-230-012-00	RES, VAR, SLIDE 100K/100K			
RV403	1-230-126-00	RES, VAR, CARBON 20K/20K			
RV404	1-230-013-00	RES, VAR, SLIDE 100K			
RV601	1-226-784-00	RES, ADJ, METAL GLAZE 100K			
S301	1-552-848-00	SWITCH, SLIDE			
S302	1-554-440-00	SWITCH, PUSH, TAPE (RADIO OFF)			
S305	1-554-440-00	SWITCH, PUSH, FM			
S306	1-554-440-00	SWITCH, PUSH, AM (LINE IN)			
S401	1-554-061-00	SWITCH, SLIDE, FM MODE/ISS			
S701	1-554-439-00	SWITCH, PUSH (1 KEY), DOLBY NR			
S801	1-554-024-00	SWITCH, LEAF			
S802	1-554-024-00	SWITCH, LEAF			
S803	1-554-024-00	SWITCH, LEAF			
S901	1-553-235-00	SWITCH, KEY BOARD, REC MUTE			
S902	1-553-226-00	SWITCH, LEAF, FF/REW STOP			
S903	1-553-226-00	SWITCH, LEAF, FF/REW			
S904	1-553-226-00	SWITCH, LEAF, POWER			
S905	1-553-226-00	SWITCH, LEAF, REC/PB MUTE			
SP901	1-503-246-00	SPEAKER (048A001) (892700000)			
SP902	1-503-246-00	SPEAKER (048A001) (892700000)			
T1	1-406-040-00	COIL (OSC)			
T2	1-404-355-00	COIL, AM IFT			
T301	1-433-270-00	TRANSFORMER, BIAS OSCILLATOR			

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μF.

RESISTORS

- All resistors are in ohms.

F: nonflammable

COILS

MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

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In each case, U: μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.